

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

# 1.1 Product Identifiers

1.2

Mouse CD40 Quantikine ELISA Kit
MCCD40
Microplate
Standard (contains ProClin 300)
Control (contains ProClin 300)
Conjugate (contains ProClin 300)
Assay Diluent (contains ProClin 300)
Calibrator Diluent (contains ProClin 300)
Wash Buffer Concentrate (contains ProClin 300)
Color Reagent A
Color Reagent B (contains Tetramethylbenzidine)
Stop Solution (contains Hydrochloric acid)
f the substance or mixture and uses advised against
For Research Use Only

# 1.3 Details of the supplier of the safety data sheet

	Company:	R&D Systems, Inc. a Bio-Techne Brand	Telephone:	1-800-343-7475
		614 McKinley Place NE	Fax:	1-612-656-4400
		Minneapolis, MN 55413, USA	Internet:	www.rndsystems.com
			Email address:	info@bio-techne.com
	Canada:	461 North Service Rd West	Telephone:	1-855-668-8722
		Unit B37	Fax:	902-827-6402
		Oakville, ON L6M 2V5	Email address:	Canada.inquiries@bio-techne.com
	United Kingdom:	19 Barton Lane	Telephone:	44 (0)1235 529449
		Abingdon Science Park	Fax:	44 (0)1235 533420
		Abingdon, OX14 3NB	Email address:	info.emea@bio-techne.com
1.4	Emergency Telephone Nu	mber		

Emergency Tel: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449

## 2. HAZARDS IDENTIFICATION

See additional safety data sheets.

# RD SYSTEMS a biotechne brand

1.	IDENTIFICATION OF THE SU	UBSTANCE/MIXTURE AND OF T	HE COMPANY/UNDERTAM	KING				
1.1	Product Identifiers							
	Product Name: St	andard (contains Proclin 300 Mixtur	re = .005%)					
1.2	Relevant identified uses of the	e substance or mixture and uses a	advised against					
	Identified Uses: Fo	or Research Use Only						
1.3	Details of the supplier of the s	safety data sheet						
	Company: R	&D Systems, Inc. a Bio-Techne Brar	nd Telephone:	1-800-343-	7475			
	61	4 McKinley Place NE	Fax:	1-612-656-4	4400			
	Mi	inneapolis, MN 55413, USA	Internet:	www.rndsys				
			Email address:	info@bio-te	chne.com			
	Canada: 46	31 North Service Rd West	Telephone:	1-855-668-6	8722			
		nit B37	Fax:	902-827-64				
	Oa	akville, ON L6M 2V5	Email address:	Canada.inq	uiries@bio-techne.com			
	United Kingdom: 19	Barton Lane	Telephone:	44 (0)1235	529449			
	At	bingdon Science Park	Fax:	44 (0)1235	533420			
	At	bingdon, OX14 3NB	Email address:	info.emea@	bio-techne.com			
1.4	Emergency Telephone Numbe	ər						
		leak, fire, exposure, or accident cal						
	Within USA and Canada: 1-800	0-424-9300. Outside USA and Cana	ada: +1 /03-527-3887 (collect	calls accepted).				
2.	HAZARDS IDENTIFICATION							
2.1								
2.1	Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]							
	-		CEF] 01 29 CFK 1910.1200 [O	ShAj				
	Sensibilisation, peau - Catégo							
2.2	Label Elements							
	Labeling according to Regulat	tion (EC) No 1272/2008 [GHS/CLP]						
	Pictogram(s):	!						
		<b>V</b>						
	Signal Word: Av	vertissement						
	Hazard Statement(s):							
	H317	Peut provoquer une allergie cu	utanée.					
	Precautionary Statement(s):							
	P261	Éviter de respirer les poussièr			S.			
	P272 P280	Les vêtements de travail conta Porter des gants de protection			protection des veux/du visage			
	P302+352	EN CAS DE CONTACT AVEC	LA PEAU: laver abondammen	t à l'eau et au savon.				
	P333+313 P362+P364	En cas d'irritation ou d'éruptio Enlever les vêtements contam			un médecin.			
2.3	Other Hazards - None							
3.	COMPOSITION/INFORMATI							
3. 3.1	Substances							
3.1								
3.2	Not applicable. Mixtures							
3.2			a Inday N		lessification	Cono		
	Component	CAS No. EC No	o. Index N	u. C	Classification	Conc.		
	Proclin 300 Mixture = .005% (a ingredients)	CIIVE 30   10-30-0		F	1317			
	Mixture of 5-Chloro-2-Methyl-		613-167	7-00-5		= 0.005 %		
	Isothiazolin-3-One (26172-5 and 2-Methyl-4-Isothiazolin-3 One (2682-20-4)							

#### 4.1 Description of first aid measures

#### General Advice

Consult a doctor and show this safety data sheet.

#### If Inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

#### In Case of Skin Contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

#### In Case of Eye Contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

#### If Swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

#### 4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

#### 5.3 Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

## 6. ACCIDENTIAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

#### 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

## 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

## 7.3 Specific end uses

Not applicable.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

#### Appropriate Engineering Controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

#### Personal Protective Equipment

Eye / Face Protection

Use appropriate safety glasses.

#### **Skin Protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

#### **Body Protection**

Wear appropriate protective clothing.

#### **Respiratory Protection**

If risk assessment indicates necessary, use a suitable respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance	Lyophilized white powder or clear liquid	Vapor Pressure	No data available.
Odor	Little to none	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
рН	No data available.	Solubility(ies)	No data available.
Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
Boiling Point / Range	No data available.	Autoignition Temperature	No data available.
Flash Point	No data available.	Decomposition Temperature	No data available.
Evaporation Rate	No data available.	Viscosity	No data available.
Flammability (Solid, Gas)	No data available.	Explosive Properties	No data available.
Upper / Lower Flammability or Explosive Limits	No data available.	Oxidizing Properties	No data available.

#### 9.2 Other safety information

No data available.

#### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Stable under recommended transport or storage conditions.

## 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4 Conditions to avoid

Heat, moisture.

#### 10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

# 10.6 Hazardous decomposition products

Strong acids/alkalis, strong oxidising/reducing agents.

## 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute Toxicity

Classified based on available data

## Skin Corrosion / Irritation

Classified based on available data

Serious Eye Damage / Irritation

Classified based on available data

## **Respiratory or Skin Sensitization**

Classified based on available data

#### Germ Cell Mutagenicity

Classified based on available data

#### Carcinogenicity

Classified based on available data

## Reproductive Toxicity

Classified based on available data

## Specific Target Organ Toxicity - Single Exposure

Classified based on available data

## Specific Target Organ Toxicity - Repeated Exposure

Classified based on available data

## Aspiration Hazard

Classified based on available data

# Symptoms / Routes of Exposure

Inhalation:

There may be irritation of the throat with a feeling of tightness in the chest.

 Ingestion:
 There may be irritation of the throat.

 Skin:
 There may be mild irritation at the site of contact.

 Eyes:
 There may be irritation and redness.

 Delayed / Immediate
 No known symptoms.

# Additional Information

Classified based on available data

#### 12. ECOLOGICAL INFORMATION

12.1 Toxicity

12.3

No data available.

# 12.2 Persistence and degradability

No data available.

Effects:

**Bioaccumulative potential** No data available.

# 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

No data available.

#### 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

#### Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

#### Contaminated Packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

TRANSPORT INFORMATION
 Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.
 UN-Number

Does not meet the criteria for classification as hazardous for transport.

## 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

## 14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

#### 14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

## 14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

## 14.6 Special precautions for users

Does not meet the criteria for classification as hazardous for transport.

#### Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

#### 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act): Not applicable. SARA 313: Not applicable. SARA 311/312: Not applicable. CERCLA Reportable Quantity: Not applicable. California Proposition 65: Proclin 300 Mixture = .005%

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

Not applicable.

## 16. OTHER INFORMATION

## Further Information

Copyright © 2018 R&D Systems, Inc. a Bio-Techne Brand

This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet

# RD SYSTEMS a biotechne brand

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1.	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AN	D OF THE COMPA	NY/UNDERTAKIN	G			
.1	Product Identifiers							
	Product Name:	Control (contains Proclin 300 M	Vixture = .005%)					
.2	Relevant identified use	es of the substance or mixture and	l uses advised agair	ist				
	Identified Uses:	For Research Use Only						
.3	Details of the supplier	of the safety data sheet						
	Company:	R&D Systems, Inc. a Bio-Tech	ne Brand Tele	ephone:	1-800-343-7475			
		614 McKinley Place NE	Fax		1-612-656-4400			
		Minneapolis, MN 55413, USA		rnet:	www.rndsystems.com			
			Em	ail address:	info@bio-techne.com			
	Canada:	461 North Service Rd West	Tele	ephone:	1-855-668-8722			
		Unit B37	Fax		902-827-6402			
		Oakville, ON L6M 2V5	Em	ail address:	Canada.inquiries@bio-techne.com			
	Liste d Kin release	10 Destan Lana	<b>T</b> -1		14 (0) 1005 500 140			
	United Kingdom:	19 Barton Lane Abingdon Science Park	Fax	ephone:	44 (0)1235 529449 44 (0)1235 533420			
		Abingdon, OX14 3NB		ail address:	info.emea@bio-techne.com			
4	Emergency Telephone	-			C			
		y, spill, leak, fire, exposure, or accid	lent call CHEMTREC	day or night:				
		a: 1-800-424-9300. Outside USA ar			lls accepted).			
	HAZARDS IDENTIFIC	ATION						
1	Classification of the su	ubstance or mixture						
	Classification accordin	ig to Regulation (EC) No 1272/2008	[GHS/CLP] or 29 CI	R 1910.1200 [OSH	A]			
	Sensitization, skin - Cat	tegory 1						
.2	Label Elements							
	Labeling according to	Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP]						
	Pictogram(s):	$\wedge$						
		$\checkmark$						
	Signal Word:	Avertissement						
	Hazard Statement(s):							
	H317	Peut provoquer une all	ergie cutanée.					
	Precautionary Statemer		0					
	-			eee ( beevilleede (				
	P261 P272	Éviter de respirer les p Les vêtements de trava						
	P280				équipement de protection des yeux/du vi	sage.		
	P302+352 P333+313	EN CAS DE CONTACT En cas d'irritation ou d'			reau et au savon. édical/Consulter un médecin.			
	P362+P364	Enlever les vêtements						
.3	Other Hazards - None							
	COMPOSITION/INFO	RMATION ON INGREDIENTS						
.1	Substances							
	Not applicable.							
.2	Mixtures							
	Component	CAS No.	EC No.	Index No.	Classification	Conc.		
		05% (active 96118-96-6			H317			
	Mixture of 5-Chloro-2- Isothiazolin-3-One (20 and 2-Methyl-4-Isothia One (2682-20-4)	6172-55-4)		613-167-0	0-5	= 0.005 %		

#### 4.1 Description of first aid measures

#### General Advice

Consult a doctor and show this safety data sheet.

#### If Inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

#### In Case of Skin Contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

#### In Case of Eye Contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

#### If Swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

#### 4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

#### 5.3 Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

## 6. ACCIDENTIAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

#### 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

## 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

## 7.3 Specific end uses

Not applicable.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

#### Appropriate Engineering Controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

#### Personal Protective Equipment

Eye / Face Protection

Use appropriate safety glasses.

#### **Skin Protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

#### **Body Protection**

Wear appropriate protective clothing.

#### **Respiratory Protection**

If risk assessment indicates necessary, use a suitable respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance	Lyophilized white powder or clear liquid	Vapor Pressure	No data available.
Odor	Little to none	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
рН	No data available.	Solubility(ies)	No data available.
Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
Boiling Point / Range	No data available.	Autoignition Temperature	No data available.
Flash Point	No data available.	Decomposition Temperature	No data available.
Evaporation Rate	No data available.	Viscosity	No data available.
Flammability (Solid, Gas)	No data available.	Explosive Properties	No data available.
Upper / Lower Flammability or Explosive Limits	No data available.	Oxidizing Properties	No data available.

#### 9.2 Other safety information

No data available.

#### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Stable under recommended transport or storage conditions.

## 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4 Conditions to avoid

Heat, moisture.

#### 10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

#### 10.6 Hazardous decomposition products

Strong acids/alkalis, strong oxidising/reducing agents.

## 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute Toxicity

## Classified based on available data

Skin Corrosion / Irritation

Classified based on available data

Serious Eye Damage / Irritation

Classified based on available data

## **Respiratory or Skin Sensitization**

Classified based on available data

#### Germ Cell Mutagenicity

Classified based on available data

#### Carcinogenicity

Classified based on available data

## Reproductive Toxicity

Classified based on available data

## Specific Target Organ Toxicity - Single Exposure

Classified based on available data

## Specific Target Organ Toxicity - Repeated Exposure

Classified based on available data

## Aspiration Hazard

Classified based on available data

# Symptoms / Routes of Exposure

Inhalation:

There may be irritation of the throat with a feeling of tightness in the chest.

 Ingestion:
 There may be irritation of the throat.

 Skin:
 There may be mild irritation at the site of contact.

 Eyes:
 There may be irritation and redness.

 Delayed / Immediate
 No known symptoms.

# Additional Information

Classified based on available data

#### 12. ECOLOGICAL INFORMATION

12.1 Toxicity

12.3

No data available.

# 12.2 Persistence and degradability

No data available.

Effects:

**Bioaccumulative potential** No data available.

# 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

No data available.

#### 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

#### Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

#### Contaminated Packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

TRANSPORT INFORMATION
 Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.
 UN-Number

Does not meet the criteria for classification as hazardous for transport.

## 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

## 14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

#### 14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

## 14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

## 14.6 Special precautions for users

Does not meet the criteria for classification as hazardous for transport.

#### Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

#### 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act): Not applicable. SARA 313: Not applicable. SARA 311/312: Not applicable. CERCLA Reportable Quantity: Not applicable. California Proposition 65: Proclin 300 Mixture = .005%

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

Not applicable.

## 16. OTHER INFORMATION

## Further Information

Copyright © 2018 R&D Systems, Inc. a Bio-Techne Brand

This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet

# RD SYSTEMS a biotechne brand

			Sa	lely Dala She	ει	www.masystems.
1.	IDENTIFICATION OF THE	SUBSTANCE/MIXTURE	AND OF THE CO	OMPANY/UNDERTAKI	NG	
1.1	Product Identifiers					
	Product Name: 0	Conjugate (contains Procl	lin 300 Mixture = .0	005%)		
1.2	Relevant identified uses of t	he substance or mixture	and uses advise	d against		
	Identified Uses:	For Research Use Only				
1.3	Details of the supplier of the	e safety data sheet				
	Company: F	R&D Systems, Inc. a Bio-	Techne Brand	Telephone:	1-800-343-7475	
	e	614 McKinley Place NE		Fax:	1-612-656-4400	
	n	Minneapolis, MN 55413, U	JSA	Internet:	www.rndsystems.com	
				Email address:	info@bio-techne.com	
	Canada: 4	461 North Service Rd We	st	Telephone:	1-855-668-8722	
		Unit B37		Fax:	902-827-6402	
	(	Oakville, ON L6M 2V5		Email address:	Canada.inquiries@bio-te	chne.com
	United Kingdom:	19 Barton Lane		Tolophono:	44 (0)1235 529449	
	5	Abingdon Science Park		Telephone: Fax:	44 (0)1235 529449	
		Abingdon, OX14 3NB		Email address:	info.emea@bio-techne.co	om
1.4	Emergency Telephone Numl	-			-	
	For chemical emergency, spil	ll, leak, fire, exposure, or a	accident call CHEN	ATREC day or night:		
	Within USA and Canada: 1-8	00-424-9300. Outside US	A and Canada: +1	1 703-527-3887 (collect c	calls accepted).	
2.	HAZARDS IDENTIFICATIO	N				
2.1	Classification of the substar	nce or mixture				
	Classification according to F	Regulation (EC) No 1272/	2008 [GHS/CLP] o	or 29 CFR 1910.1200 [OS	HAJ	
	Sensitization, skin - Category			-	-	
2.2	Label Elements					
	Labeling according to Regul	ation (EC) No 1272/2008	IGHS/CLP1			
			[0.10/01.]			
	Pictogram(s):					
	Signal Word:	Warning				
	Hazard Statement(s):					
	H317	May cause an alle	rgic skin reaction.			
	Precautionary Statement(s):					
	P261	Avoid breathing du	ust/fumes/gas/mist	/vapours/sprav.		
	P272	Contaminated wor	k clothing should r	not be allowed out of the		
	P280 P302+352	Wear protective glo IF ON SKIN: Wash		thing/eye protection/face o and water.	protection.	
	P333+313	If skin irritation or r	ash occurs: Get m	nedical advice/attention.		
2.3	P362+P364 Other Hazards - None	Take off contamina	ated clothing and w	vash it before reuse.		
2.5	Other Hazards - None					
3.	COMPOSITION/INFORMA	TION ON INGREDIENT	S			
3.1	Substances					
	Not applicable.					
3.2	Mixtures					
	Component	CAS No.	EC No.	Index No.	. Classification	Conc.
	Proclin 300 Mixture = .005% ( ingredients)	(active 96118-96-6			H317	
	Mixture of 5-Chloro-2-Methy Isothiazolin-3-One (26172- and 2-Methyl-4-Isothiazolin- One (2682-20-4)	55-4)		613-167-	-00-5	= 0.005 %

#### 4.1 Description of first aid measures

#### General Advice

Consult a doctor and show this safety data sheet.

#### If Inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

#### In Case of Skin Contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

#### In Case of Eye Contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

#### If Swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

#### 4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

#### 5.3 Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

## 6. ACCIDENTIAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

#### 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

## 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

## 7.3 Specific end uses

Not applicable.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

#### Appropriate Engineering Controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

#### Personal Protective Equipment

Eye / Face Protection

Use appropriate safety glasses.

#### **Skin Protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

#### **Body Protection**

Wear appropriate protective clothing.

#### **Respiratory Protection**

If risk assessment indicates necessary, use a suitable respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance	Lyophilized white powder or clear liquid	Vapor Pressure	No data available.
Odor	Little to none	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
рН	No data available.	Solubility(ies)	No data available.
Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
Boiling Point / Range	No data available.	Autoignition Temperature	No data available.
Flash Point	No data available.	Decomposition Temperature	No data available.
Evaporation Rate	No data available.	Viscosity	No data available.
Flammability (Solid, Gas)	No data available.	Explosive Properties	No data available.
Upper / Lower Flammability or Explosive Limits	No data available.	Oxidizing Properties	No data available.

#### 9.2 Other safety information

No data available.

#### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Stable under recommended transport or storage conditions.

## 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4 Conditions to avoid

Heat, moisture.

#### 10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

#### 10.6 Hazardous decomposition products

Strong acids/alkalis, strong oxidising/reducing agents.

## 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute Toxicity

## Classified based on available data

Skin Corrosion / Irritation

Classified based on available data

Serious Eye Damage / Irritation

Classified based on available data

## **Respiratory or Skin Sensitization**

Classified based on available data

#### Germ Cell Mutagenicity

Classified based on available data

#### Carcinogenicity

Classified based on available data

## **Reproductive Toxicity**

Classified based on available data

## Specific Target Organ Toxicity - Single Exposure

Classified based on available data

## Specific Target Organ Toxicity - Repeated Exposure

Classified based on available data

## Aspiration Hazard

Classified based on available data

# Symptoms / Routes of Exposure

Inhalation:

There may be irritation of the throat with a feeling of tightness in the chest.

 Ingestion:
 There may be irritation of the throat.

 Skin:
 There may be mild irritation at the site of contact.

 Eyes:
 There may be irritation and redness.

 Delayed / Immediate
 No known symptoms.

# Additional Information

Classified based on available data

#### 12. ECOLOGICAL INFORMATION

12.1 Toxicity

12.3

No data available.

# 12.2 Persistence and degradability

No data available.

Effects:

**Bioaccumulative potential** No data available.

# 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

No data available.

#### 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

#### Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

#### Contaminated Packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

TRANSPORT INFORMATION
 Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.
 UN-Number

Does not meet the criteria for classification as hazardous for transport.

## 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

## 14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

#### 14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

## 14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

## 14.6 Special precautions for users

Does not meet the criteria for classification as hazardous for transport.

#### Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

#### 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act): Not applicable. SARA 313: Not applicable. SARA 311/312: Not applicable. CERCLA Reportable Quantity: Not applicable. California Proposition 65: Proclin 300 Mixture = .005%

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

Not applicable.

## 16. OTHER INFORMATION

## Further Information

Copyright © 2018 R&D Systems, Inc. a Bio-Techne Brand

This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet

# RD SYSTEMS a biotechne brand

						-
1.	IDENTIFICATION OF THE SUB	STANCE/MIXTURE AN	ID OF THE COMPA	NY/UNDERTAKING		
1.1	Product Identifiers					
	Product Name: Assa	y Diluent (contains Procl	in 300 Mixture = .005	%)		
1.2	Relevant identified uses of the s	ubstance or mixture and	d uses advised agai	nst		
	Identified Uses: For F	Research Use Only				
1.3	Details of the supplier of the safe	ety data sheet				
	Company: R&D	Systems, Inc. a Bio-Tech	nne Brand Tel	ephone:	1-800-343-7475	
		McKinley Place NE	Fax		1-612-656-4400	
	Minn	eapolis, MN 55413, USA		rnet: ail address:	www.rndsystems.com info@bio-techne.com	
	Canada: 461 M	North Service Rd West	Tel	ephone:	1-855-668-8722	
	Unit	B37	Fax	:	902-827-6402	
	Oakv	ille, ON L6M 2V5	Em	ail address:	Canada.inquiries@bio-techne.com	
	United Kingdom: 19 Ba	arton Lane	Tel	ephone:	44 (0)1235 529449	
	Abing	gdon Science Park	Fax	:	44 (0)1235 533420	
	Abing	gdon, OX14 3NB	Em	ail address:	info.emea@bio-techne.com	
1.4	Emergency Telephone Number					
	For chemical emergency, spill, lea Within USA and Canada: 1-800-4				accepted).	
2. 2.1	HAZARDS IDENTIFICATION Classification of the substance	or mixture				
2.1	Classification according to Regu		8 [GHS/CI P] or 29 C	FR 1910 1200 [OSHA]		
	Sensitization, skin - Category 1			10 1310.1200 [OSIIA]		
2.2	Label Elements	(EC) No 1272/2009 ICH	8/01 01			
	Labeling according to Regulation	1 (EC) NO 1272/2008 [GH	S/CLP]			
	Pictogram(s):	>				
	Signal Word: Warr	iing				
	Hazard Statement(s):					
	H317	May cause an allergic	skin reaction.			
	Precautionary Statement(s):	-				
	P261	Avoid breathing dust/f	umes/gas/mist/vapor	rs/spray.		
	P272	Contaminated work clo	othing should not be	allowed out of the worl		
	P280 P302+352	Wear protective gloves IF ON SKIN: Wash with		ye protection/face prote vater.	ection.	
	P333+313	If skin irritation or rash	occurs: Get medical	advice/attention.		
2.3	P362+P364 <b>Other Hazards -</b> None	Take off contaminated	ciouning and wash it	Delore reuse.		
3. 3.1	COMPOSITION/INFORMATION Substances					
3.1	Not applicable.					
3.2	Mixtures					
J.2	Component	CAS No.	EC No.	Index No.	Classification	Conc.
	Proclin 300 Mixture = .005% (activ		20110.	IIIGEX NO.		conc.
	ingredients)	00110-00-0			H317	
	Mixture of 5-Chloro-2-Methyl-4- Isothiazolin-3-One (26172-55-4 and 2-Methyl-4-Isothiazolin-3- One (2682-20-4)	55965-84-9 )		613-167-00-5	5	= 0.005 %

#### 4.1 Description of first aid measures

#### General Advice

Consult a doctor and show this safety data sheet.

#### If Inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

#### In Case of Skin Contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

#### In Case of Eye Contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

#### If Swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

#### 4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

#### 5.3 Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

## 6. ACCIDENTIAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

#### 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

## 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

## 7.3 Specific end uses

Not applicable.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

#### Appropriate Engineering Controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

#### Personal Protective Equipment

Eye / Face Protection

Use appropriate safety glasses.

#### **Skin Protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

#### **Body Protection**

Wear appropriate protective clothing.

#### **Respiratory Protection**

If risk assessment indicates necessary, use a suitable respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance	Lyophilized white powder or clear liquid	Vapor Pressure	No data available.
Odor	Little to none	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
рН	No data available.	Solubility(ies)	No data available.
Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
Boiling Point / Range	No data available.	Autoignition Temperature	No data available.
Flash Point	No data available.	Decomposition Temperature	No data available.
Evaporation Rate	No data available.	Viscosity	No data available.
Flammability (Solid, Gas)	No data available.	Explosive Properties	No data available.
Upper / Lower Flammability or Explosive Limits	No data available.	Oxidizing Properties	No data available.

#### 9.2 Other safety information

No data available.

#### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Stable under recommended transport or storage conditions.

## 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4 Conditions to avoid

Heat, moisture.

#### 10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

#### 10.6 Hazardous decomposition products

Strong acids/alkalis, strong oxidising/reducing agents.

## 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute Toxicity

## Classified based on available data

Skin Corrosion / Irritation

Classified based on available data

Serious Eye Damage / Irritation

Classified based on available data

## **Respiratory or Skin Sensitization**

Classified based on available data

#### Germ Cell Mutagenicity

Classified based on available data

#### Carcinogenicity

Classified based on available data

## **Reproductive Toxicity**

Classified based on available data

## Specific Target Organ Toxicity - Single Exposure

Classified based on available data

## Specific Target Organ Toxicity - Repeated Exposure

Classified based on available data

## Aspiration Hazard

Classified based on available data

# Symptoms / Routes of Exposure

Inhalation:

There may be irritation of the throat with a feeling of tightness in the chest.

 Ingestion:
 There may be irritation of the throat.

 Skin:
 There may be mild irritation at the site of contact.

 Eyes:
 There may be irritation and redness.

 Delayed / Immediate
 No known symptoms.

# Additional Information

Classified based on available data

#### 12. ECOLOGICAL INFORMATION

12.1 Toxicity

12.3

No data available.

# 12.2 Persistence and degradability

No data available.

Effects:

**Bioaccumulative potential** No data available.

# 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

No data available.

#### 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

#### Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

#### Contaminated Packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

TRANSPORT INFORMATION
 Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.
 UN-Number

Does not meet the criteria for classification as hazardous for transport.

## 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

## 14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

#### 14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

## 14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

## 14.6 Special precautions for users

Does not meet the criteria for classification as hazardous for transport.

#### Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

#### 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act): Not applicable. SARA 313: Not applicable. SARA 311/312: Not applicable. CERCLA Reportable Quantity: Not applicable. California Proposition 65: Proclin 300 Mixture = .005%

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

Not applicable.

## 16. OTHER INFORMATION

## Further Information

Copyright © 2018 R&D Systems, Inc. a Bio-Techne Brand

This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet

# RD SYSTEMS a biotechne brand

1.		SUBSTANCE/MIXTURE AN							
ı. 1.1	Product Identifiers	SOBSTANCE/MIXTORE AN	D OF THE COMPA	NT/ONDERTARING					
1.1	Product Name:	Calibrator Diluent (contains Pr	oclin 300 Mixture =	005%)					
1.2		the substance or mixture and							
1.2		For Research Use Only	a uses advised again						
1.3	Details of the supplier of th	-							
1.5		-	no Brand Tal	ephone:	1-800-343-7475				
		R&D Systems, Inc. a Bio-Tech 614 McKinley Place NE	Fax	•	1-612-656-4400				
		Minneapolis, MN 55413, USA		ernet:	www.rndsystems.com				
			Em	ail address:	info@bio-techne.com				
	Canada:	461 North Service Rd West	Tel	ephone:	1-855-668-8722				
		Unit B37	Fax		902-827-6402				
		Oakville, ON L6M 2V5	Em	ail address:	Canada.inquiries@bio-techne.com				
	United Kingdom:	19 Barton Lane	Tel	ephone:	44 (0)1235 529449				
	-	Abingdon Science Park	Fax		44 (0)1235 533420				
		Abingdon, OX14 3NB	Em	ail address:	info.emea@bio-techne.com				
1.4	Emergency Telephone Num	nber							
_		ill, leak, fire, exposure, or accio 800-424-9300. Outside USA an			accepted).				
2.	HAZARDS IDENTIFICATIO	DN							
2.1	Classification of the substa	ance or mixture							
	Classification according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]								
	Sensitization, skin - Categor								
2.2	Label Elements								
	Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP]								
	Pictogram(s):		-						
	Signal Word:	Warning							
	Hazard Statement(s):								
	H317	May cause an allergic	skin reaction.						
	Precautionary Statement(s):								
	P261	Avoid breathing dust/fu	umes/gas/mist/vapou	irs/sprav.					
	P272	Contaminated work clo	othing should not be	allowed out of the wo	•				
	P280 P302+352	P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+352 IF ON SKIN: Wash with plenty of soap and water.							
	P333+313 If skin irritation or rash occurs: Get medical advice/attention.								
2.3	P362+P364 <b>Other Hazards -</b> None	Take off contaminated	clothing and wash it	before reuse.					
3.	COMPOSITION/INFORMA	TION ON INGREDIENTS							
3.1	Substances								
	Not applicable.								
3.2	Mixtures								
	Component	CAS No.	EC No.	Index No.	Classification	Conc.			
	Proclin 300 Mixture = .005% ingredients)	(active 96118-96-6			H317				
	Mixture of 5-Chloro-2-Meth Isothiazolin-3-One (26172 and 2-Methyl-4-Isothiazoli One (2682-20-4)	-55-4)		613-167-00-	5	= 0.005 %			

#### 4.1 Description of first aid measures

#### General Advice

Consult a doctor and show this safety data sheet.

#### If Inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

#### In Case of Skin Contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

#### In Case of Eye Contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

#### If Swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

#### 4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

#### 5.3 Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

## 6. ACCIDENTIAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

#### 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

## 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

## 7.3 Specific end uses

Not applicable.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

#### Appropriate Engineering Controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

#### Personal Protective Equipment

Eye / Face Protection

Use appropriate safety glasses.

#### **Skin Protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

#### **Body Protection**

Wear appropriate protective clothing.

#### **Respiratory Protection**

If risk assessment indicates necessary, use a suitable respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance	Lyophilized white powder or clear liquid	Vapor Pressure	No data available.
Odor	Little to none	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
рН	No data available.	Solubility(ies)	No data available.
Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
Boiling Point / Range	No data available.	Autoignition Temperature	No data available.
Flash Point	No data available.	Decomposition Temperature	No data available.
Evaporation Rate	No data available.	Viscosity	No data available.
Flammability (Solid, Gas)	No data available.	Explosive Properties	No data available.
Upper / Lower Flammability or Explosive Limits	No data available.	Oxidizing Properties	No data available.

#### 9.2 Other safety information

No data available.

#### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Stable under recommended transport or storage conditions.

## 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4 Conditions to avoid

Heat, moisture.

#### 10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

# 10.6 Hazardous decomposition products

Strong acids/alkalis, strong oxidising/reducing agents.

## 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute Toxicity

Classified based on available data

## Skin Corrosion / Irritation

Classified based on available data

Serious Eye Damage / Irritation

Classified based on available data

## **Respiratory or Skin Sensitization**

Classified based on available data

#### Germ Cell Mutagenicity

Classified based on available data

#### Carcinogenicity

Classified based on available data

## **Reproductive Toxicity**

Classified based on available data

## Specific Target Organ Toxicity - Single Exposure

Classified based on available data

## Specific Target Organ Toxicity - Repeated Exposure

Classified based on available data

## Aspiration Hazard

Classified based on available data

# Symptoms / Routes of Exposure

Inhalation:

There may be irritation of the throat with a feeling of tightness in the chest.

 Ingestion:
 There may be irritation of the throat.

 Skin:
 There may be mild irritation at the site of contact.

 Eyes:
 There may be irritation and redness.

 Delayed / Immediate
 No known symptoms.

# Additional Information

Classified based on available data

#### 12. ECOLOGICAL INFORMATION

12.1 Toxicity

12.3

No data available.

# 12.2 Persistence and degradability

No data available.

Effects:

**Bioaccumulative potential** No data available.

# 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

No data available.

#### 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

#### Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

#### Contaminated Packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

TRANSPORT INFORMATION
 Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.
 UN-Number

Does not meet the criteria for classification as hazardous for transport.

## 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

## 14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

#### 14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

## 14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

## 14.6 Special precautions for users

Does not meet the criteria for classification as hazardous for transport.

#### Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

#### 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act): Not applicable. SARA 313: Not applicable. SARA 311/312: Not applicable. CERCLA Reportable Quantity: Not applicable. California Proposition 65: Proclin 300 Mixture = .005%

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

Not applicable.

## 16. OTHER INFORMATION

## Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet

# RD SYSTEMS a biotechne brand

	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND	OF THE COMPANY/UNDERTAK	ING		
.1	Product Identifiers					
	Product Name:	Wash Buffer Concentrate (contair	ns Proclin 300 Mixture = .025%)			
2	Relevant identified us	es of the substance or mixture and us				
	Identified Uses:	For Research Use Only	-			
3	Details of the supplier	of the safety data sheet				
	Company:	R&D Systems, Inc. a Bio-Techne	Brand Telephone:	1-800-343-7475		
		614 McKinley Place NE	Fax:	1-612-656-4400		
		Minneapolis, MN 55413, USA	Internet:	www.rndsystems.com		
			Email address:	info@bio-techne.com		
	Canada:	461 North Service Rd West	Telephone:	1-855-668-8722		
		Unit B37	Fax:	902-827-6402		
		Oakville, ON L6M 2V5	Email address:	Canada.inquiries@bio-techne.com		
	United Kingdom:	19 Barton Lane	Telephone:	44 (0)1235 529449		
	onitod rangdoni.	Abingdon Science Park	Fax:	44 (0)1235 533420		
		Abingdon, OX14 3NB	Email address:	info.emea@bio-techne.com		
.4	Emergency Telephone	Number				
	Emergency Tel:	US: 612-379-2956 or 800-343-74	475 / Europe: +44(0)1235-529449			
	HAZARDS IDENTIFIC	ATION				
.1	Classification of the s	ubstance or mixture				
	This substance does no	ot meet the classification criteria of the	EC Directives 67/548/EEC, 1999/4	5/EC, 1272/2008 [CLP], GHS or 29 CFR 1910.120	0 [OSHA].	
	Label Elements					
2	The product does not need to be labelled in accordance with EC directives or respective national laws.					
2		need to be labelled in accordance with	EC directives or respective nationa	I laws.		
		need to be labelled in accordance with	EC directives or respective nationa	I laws.		
.3	The product does not n Other Hazards - None COMPOSITION/INFO	RMATION ON INGREDIENTS	EC directives or respective nationa	I laws.		
.3	The product does not n Other Hazards - None COMPOSITION/INFO Substances		EC directives or respective nationa	I laws.		
.3 .1	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable.		EC directives or respective nationa	I laws.		
3	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures	RMATION ON INGREDIENTS				
3	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component	RMATION ON INGREDIENTS	EC directives or respective nationa		Conc.	
2 3 1	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component	RMATION ON INGREDIENTS			Conc.	
.3 .1	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Proclin 300 Mixture = .0 ingredients)	CAS No.         E           025% (active 96118-96-6         55965-84-9           6172-55-4)         55965-84-9		. Classification	<b>Conc.</b> = 0.025 %	
3	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Proclin 300 Mixture = .( ingredients) Mixture of 5-Chloro-2- Isothiazolin-3-One (2 and 2-Methyl-4-Isothi	CAS No.         E           025% (active 96118-96-6	EC No. Index No	. Classification		
.3 .1	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Proclin 300 Mixture = .( ingredients) Mixture of 5-Chloro-2- Isothiazolin-3-One (2 and 2-Methyl-4-Isothi One (2682-20-4)	CAS No.         E           025% (active 96118-96-6         55965-84-9           6172-55-4) azolin-3-         55965-84-9	EC No. Index No	. Classification		
3	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Proclin 300 Mixture = .0 ingredients) Mixture of 5-Chloro-2- Isothiazolin-3-One (2 and 2-Methyl-4-Isothi One (2682-20-4)	CAS No.         E           025% (active 96118-96-6         55965-84-9           6172-55-4) azolin-3-         55965-84-9	EC No. Index No	. Classification		
3	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Proclin 300 Mixture = .0 ingredients) Mixture of 5-Chloro-2- Isothiazolin-3-One (2 and 2-Methyl-4-Isothi One (2682-20-4) FIRST AID MEASURI Description of first aid General Advice	CAS No.         E           025% (active 96118-96-6         55965-84-9           6172-55-4) azolin-3-         55965-84-9	EC No. Index No	. Classification		
3	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Proclin 300 Mixture = .0 ingredients) Mixture of 5-Chloro-2- Isothiazolin-3-One (2 and 2-Methyl-4-Isothi One (2682-20-4) FIRST AID MEASURI Description of first aid General Advice	CAS No.         E           025% (active 96118-96-6         55965-84-9           6172-55-4)         55965-84-9           azolin-3-         55965-84-9           ES         I measures	EC No. Index No	. Classification		
3	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Proclin 300 Mixture = .( ingredients) Mixture of 5-Chloro-2- Isothiazolin-3-One (2 and 2-Methyl-4-Isothi One (2682-20-4) FIRST AID MEASURI Description of first aid General Advice Consult a doctor and si	CAS No.       E         025% (active 96118-96-6         •Methyl-4-       55965-84-9         6172-55-4)       azolin-3-         ES       I measures         how this safety data sheet.	EC No. Index No 613-167	. Classification	= 0.025 %	
3	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Proclin 300 Mixture = .0 ingredients) Mixture of 5-Chloro-2- Isothiazolin-3-One (2682-20-4) FIRST AID MEASURI Description of first aid General Advice Consult a doctor and st If Inhaled Remove to fresh air and In Case of Skin Contact	CAS No.       E         D25% (active 96118-96-6         Methyl-4-       55965-84-9         6172-55-4)       azolin-3-         ES       I measures         how this safety data sheet.       d         d monitor breathing. If breathing becompt       t	EC No. Index No 613-167 nes difficult, give oxygen. If breathin	-00-5	= 0.025 %	
	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Proclin 300 Mixture = .0 ingredients) Mixture of 5-Chloro-2- Isothiazolin-3-One (2 and 2-Methyl-4-Isothi One (2682-20-4) FIRST AID MEASURI Description of first aid General Advice Consult a doctor and sli If Inhaled Remove to fresh air and In Case of Skin Contact Immediately wash skin In Case of Eye Contact	CAS No.       E         D25% (active 96118-96-6         Methyl-4-       55965-84-9         6172-55-4)       azolin-3-         ES       I measures         how this safety data sheet.       atomitor breathing. If breathing becomet         t       with copious amounts of soap and wate	EC No. Index No 613-167 nes difficult, give oxygen. If breathin ater for at least 15 minutes. Remov	-00-5	= 0.025 %	
3	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Proclin 300 Mixture = .0 ingredients) Mixture of 5-Chloro-2- Isothiazolin-3-One (2 and 2-Methyl-4-Isothi One (2682-20-4) FIRST AID MEASURI Description of first aid General Advice Consult a doctor and sti If Inhaled Remove to fresh air and In Case of Skin Contact Flush with copious and If Swallowed	CAS No. E         D25% (active 96118-96-6         225% (active 96118-96-6         Methyl-4-       55965-84-9         6172-55-4)       azolin-3-         ES         I measures         how this safety data sheet.         d monitor breathing. If breathing becomet         with copious amounts of soap and wate         bounts of water for at least 15 minutes.	EC No. Index No 613-167 nes difficult, give oxygen. If breathin ater for at least 15 minutes. Remov Consult a doctor.	. Classification -00-5 ng stops, give artificial respiration. Consult a doctor e contaminated clothing and shoes and wash befo	= 0.025 %	
3 1 2 1	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Proclin 300 Mixture = .( ingredients) Mixture of 5-Chloro-2- Isothiazolin-3-One (2 and 2-Methyl-4-Isothi One (2682-20-4) FIRST AID MEASURI Description of first aid General Advice Consult a doctor and si If Inhaled Remove to fresh air and In Case of Skin Contact Flush with copious and If Swallowed Rinse mouth with water	CAS No.       E         025% (active 96118-96-6         •Methyl-4-       55965-84-9         6172-55-4)       azolin-3-         ES       I measures         how this safety data sheet.       atomitor breathing. If breathing becomest         with copious amounts of soap and water       atomitor breathing. If breathing becomest         to	EC No. Index No 613-167 nes difficult, give oxygen. If breathin ater for at least 15 minutes. Remov Consult a doctor. ed to do so by medical personnel.	-00-5	= 0.025 %	
3	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Proclin 300 Mixture = .( ingredients) Mixture of 5-Chloro-2- Isothiazolin-3-One (2 and 2-Methyl-4-Isothi One (2682-20-4) FIRST AID MEASURI Description of first aid General Advice Consult a doctor and sl If Inhaled Remove to fresh air and In Case of Skin Contact Immediately wash skin In Case of Eye Contact Flush with copious and If Swallowed Rinse mouth with water	CAS No. E         D25% (active 96118-96-6         225% (active 96118-96-6         Methyl-4-       55965-84-9         6172-55-4)       azolin-3-         ES         I measures         how this safety data sheet.         d monitor breathing. If breathing becomet         with copious amounts of soap and wate         bounts of water for at least 15 minutes.	EC No. Index No 613-167 nes difficult, give oxygen. If breathin ater for at least 15 minutes. Remov Consult a doctor. ed to do so by medical personnel. yed	Classification -00-5 -00-	= 0.025 %	

#### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

## 5.3 Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

#### 6. ACCIDENTIAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

## 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

#### 7.3 Specific end uses

Not applicable.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

## Appropriate Engineering Controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

#### **Personal Protective Equipment**

#### Eye / Face Protection

Use appropriate safety glasses.

#### **Skin Protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

#### **Body Protection**

Wear appropriate protective clothing.

#### **Respiratory Protection**

If risk assessment indicates necessary, use a suitable respirator.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance	Lyophilized white powder or clear liquid	Vapor Pressure	No data available.
Odor	Little to none	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
pН	No data available.	Solubility(ies)	No data available.
Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
Boiling Point / Range	No data available.	Autoignition Temperature	No data available.
Flash Point	No data available.	Decomposition Temperature	No data available.
Evaporation Rate	No data available.	Viscosity	No data available.

	Flammability (Solid, Gas) Upper / Lower Flammability or Ex	No data available.	Explosive Properties	No data available.			
	Limits	No data available.	Oxidizing Properties	No data available.			
2	Other safety information						
	No data available.						
).	STABILITY AND REACTIVITY						
0.1	Reactivity						
	Stable under recommended trans	port or storage conditions.					
0.2	Chemical stability	-					
	Stable under recommended stora	ge conditions.					
0.3	Possibility of hazardous reaction	-					
	Hazardous reactions will not occur	r under normal transport or storage condi	itions. Decomposition may occur on exposure	to conditions or materials listed below.			
0.4	Conditions to avoid						
	Heat, moisture.						
0.5	Incompatible materials						
	Strong acids/alkalis, strong oxidisi	ing/reducing agents.					
0.6	Hazardous decomposition produ	cts					
	Strong acids/alkalis, strong oxidis	ing/reducing agents.					
1.		 NN					
 1.1	Information on toxicological effect						
	Acute Toxicity						
	Classified based on available data	a					
	Skin Corrosion / Irritation	-					
	Classified based on available data	a					
	Serious Eye Damage / Irritation						
	Classified based on available data	a					
	Respiratory or Skin Sensitization						
	Classified based on available data						
	Germ Cell Mutagenicity						
	Classified based on available data	a					
	Carcinogenicity						
	Classified based on available data	a					
	Reproductive Toxicity						
	Classified based on available data	a					
	Specific Target Organ Toxicity - Single Exposure						
	Classified based on available data						
	Specific Target Organ Toxicity - Repeated Exposure						
	Classified based on available data						
	Aspiration Hazard						
	Classified based on available data	a					
	Symptoms / Routes of Exposure						
		may be irritation of the throat with a feeling	g of tightness in the chest.				
		may be irritation of the throat.					
	Skin: There may be mild irritation at the site of contact.						
		may be irritation and redness.					
	Delayed (Immediate	own symptoms.					
	Additional Information						
	Classified based on available data						

12.1 Toxicity

No data available.

## 12.2 Persistence and degradability

No data available.

#### 12.3 **Bioaccumulative potential**

No data available.

12.4 Mobility in soil

No data available.

Results of PBT and vPvB assessment 12.5

## No data available. 12.6

Other adverse effects

No data available.

#### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

#### **Contaminated Packaging**

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

#### 14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.

#### 14.1 **UN-Number**

Does not meet the criteria for classification as hazardous for transport.

#### 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

#### 14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

#### 14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

#### 14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

#### 14.6 Special precautions for users

Does not meet the criteria for classification as hazardous for transport.

#### Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

#### 15. **REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act): Not applicable. SARA 313: Not applicable. SARA 311/312: Not applicable. CERCLA Reportable Quantity: Not applicable. California Proposition 65: Proclin 300 Mixture = .025%

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

#### OTHER INFORMATION 16.

#### **Further Information**

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet

Not applicable.



#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifiers Product Name: Color Reagent A 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified Uses: For research use only. Details of the supplier of the safety data sheet 1.3 1-800-343-7475 Company: R&D Systems, Inc. a Bio-Techne Brand Telephone: 614 McKinley Place NE 1-612-656-4400 Fax: Minneapolis, MN 55413, USA Internet: www.rndsvstems.com Email address: info@bio-techne.com 21 Canmotor Avenue Telephone: 1-855-668-8722 Canada: Toronto, Ontario M8Z4E6 Fax: 902-827-6402 Canada Email address: Canada.inquiries@bio-techne.com 19 Barton Lane 44 (0)1235 529449 United Kingdom: Telephone: Abingdon Science Park 44 (0)1235 533420 Fax: Abingdon, OX14 3NB Email address: info.emea@bio-techne.com China: 1193 Changning Road Telephone: 86-400-821-3475 Unit 1901, Raffles City Changning Office Fax: 76 (021) 52371001 Shanghai Email address techsupport.cn@bio-techne.com 1.4 **Emergency Telephone Number** Emergency Tel: For chemical emergency, spill, leak, fire, exposure, or accident call Bio-Techne day or night: Bio-Techne Tel: US:612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475 HAZARDS IDENTIFICATION 2. 2.1 Classification of the substance or mixture This substance does not meet the classification criteria of the EC Directives 67/548/EEC, 1999/45/EC, 1272/2008 [CLP], GHS or 29 CFR 1910.1200 [OSHA]. 2.2 Label Elements The product does not need to be labelled in accordance with EC directives or respective national laws. 2.3 Other Hazards - None 3. COMPOSITION/INFORMATION ON INGREDIENTS 3.1 Substances Not applicable. 3.2 Mixtures This product does not contain hazardous chemicals at concentrations of 1% or greater. This product is not known to contain carcinogens at concentrations of 0.1% or greater. 4. FIRST AID MEASURES Description of first aid measures 4.1 **General Advice** Consult a doctor and show this safety data sheet. If Inhaled Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor. In Case of Skin Contact Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor. In Case of Eve Contact Flush with copious amounts of water for at least 15 minutes. Consult a doctor. If Swallowed Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor. Most important symptoms and effects, both acute and delayed 4.2 To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Indication of immediate medical attention and special treatment needed 4.3 Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### 5.1 Extinguishing Media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

#### 5.3 Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

#### 6. ACCIDENTIAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

#### 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

## 7.3 Specific end uses

Not applicable.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

#### Appropriate Engineering Controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

#### Personal Protective Equipment

Eye / Face Protection

Use appropriate safety glasses.

#### **Skin Protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

#### **Body Protection**

Wear appropriate protective clothing.

## **Respiratory Protection**

If risk assessment indicates necessary, use a suitable respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance	Lyophilized white powder or clear liquid.	Vapor Pressure	No data available.
Odor	Little to none.	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
рН	No data available.	Solubility	No data available.
Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
Boiling Point / Range	No data available.	Autoignition Temperature	No data available.
Flash Point	No data available.	Decomposition Temperature	No data available.
Evaporation Rate	No data available.	Viscosity	No data available.
Flammability (Solid, Gas)	No data available.	Explosive Properties	No data available.

	Upper / Lower Flammabil Explosive Limits	No data available.	Oxidizing Properties	No data available.
.2	Other safety information			
	No data available.			
0.	STABILITY AND REACT	IVITY		
0.1	Reactivity			
	Stable under recommende	d transport or storage conditions.		
0.2	Chemical stability			
	Stable under recommende	d storage conditions.		
0.3	Possibility of hazardous	reactions		
	Hazardous reactions will n	ot occur under normal transport or storage conditio	ns. Decomposition may occur on exposure to cond	itions or materials listed below.
D.4	Conditions to avoid			
	Heat, moisture.			
0.5	Incompatible materials			
	Strong acids/alkalis, strong	oxidizing/reducing agents.		
0.6	Hazardous decompositio	n products		
	Strong acids/alkalis, strong	oxidizing/reducing agents.		
1.	TOXICOLOGICAL INFO			
1.1	Information on toxicolog	cal effects		
	Acute Toxicity			
	Classified based on availa			
	Skin Corrosion / Irritation			
	Classified based on availa			
	Serious Eye Damage / Irr			
	Classified based on availal			
	Respiratory or Skin Sens			
	Classified based on availal	ole data.		
	Germ Cell Mutagenicity			
	Classified based on availa	ole data.		
	Carcinogenicity			
	Classified based on availal	ole data.		
	Reproductive Toxicity			
	Classified based on availa			
	Specific Target Organ To	xicity - Single Exposure		
	Classified based on availa			
		xicity - Repeated Exposure		
	Classified based on availa	ole data.		
	Aspiration Hazard			
	Classified based on availa			
	Symptoms / Routes of Ex			
	Inhalation:	There may be irritation of the throat with a feeling	g or tigntness in the chest.	
	Ingestion:	There may be irritation of the throat.		
	Skin:	There may be mild irritation at the site of contact.		
	Eyes:	There may be irritation and redness.		
	Delayed/Immediate Effect	s: No known symptoms.		
	Additional Information			
	Classified based on availa	ole data.		
2.	ECOLOGICAL INFORM	ATION		

Toxicity

No data available.

12.2 Persistence and degradability

No data available. 12.3

Bio accumulative potential No data available.

#### 12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

#### 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

## Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

#### Contaminated Packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

## 14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.

## 14.1 UN-Number

Does not meet the criteria for classification as hazardous for transport.

#### 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

#### 14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

## 14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

#### 14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

#### 14.6 Special precautions for users

Does not meet the criteria for classification as hazardous for transport.

#### Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act): Not applicable. SARA 313: Not applicable.

SARA 311/312: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable.

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

#### 16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet

# RD SYSTEMS a biotechne brand

Version 2.0 SDS Revision Date 10/25/2023 www.rndsystems.com

#### IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1. 1.1 **Product Identifiers** Product Name: Color Reagent B (contains N,N-Dimethylformamide and Tetramethylbenzidine) 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified Uses: 1.3 Details of the supplier of the safety data sheet R&D Systems, Inc. a Bio-Techne Brand 1-800-343-7475 Company: Telephone: 614 McKinley Place NE 1-612-656-4400 Fax: Minneapolis, MN 55413, USA Internet: www.rndsystems.com Email address: info@bio-techne.com 461 North Service Rd West 1-855-668-8722 Canada: Telephone: Unit B37 Fax: 902-827-6402 Oakville, ON L6M 2V5 Canada.inquiries@bio-techne.com Email address:

United Kingdom:	19 Barton Lane	Telephone:	44 (0)1235 529449
	Abingdon Science Park	Fax:	44 (0)1235 533420
	Abingdon, OX14 3NB	Email address:	info.emea@bio-techne.com

## 1.4 Emergency Telephone Number

For chemical emergency, spill, leak, fire, exposure, or accident call CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887 (collect calls accepted).

#### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]

Acute Toxicity, dermal - Category 4 Skin Corrosion/Irritation - Category 2 Serious eye damage/eye irritation - Category 2A Acute Toxicity, inhalation - Category 4 Reproductive Toxicity - Category 1B

#### 2.2 Label Elements

H360

#### Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP]

Danger

Pictogram(s):



Signal Word:	
Hazard Statement(s):	
H312 H315	
H319	
H332	

I la maful in constant with alvia
Harmful in contact with skin.
Causes skin irritation.
Causes serious eye irritation.
Harmful if inhaled.
May damage fertility or the unborn child

Precautionary Statement(s):

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only in well-ventilated areas.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313	IF exposed or concerned: Get medical advice/ attention.
P312	Call poison center/doctor if you feel unwell.
P321	Specific treatment (see Section 4).
P332+313	If skin irritation occurs: Get medical advice/attention.
P337+313	If eye irritation persists: Get medical advice/attention.
P362+364	Take off contaminated clothing and wash it before reuse.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable.

# 3.2 Mixtures

Component	CAS No.	EC No.	Index No.	Classification	Conc.
N,N-Dimethylformamide	68-12-2	200-679-5		H312 , H315 , H319 , H332 , H360	< 25 %
Tetramethylbenzidine	54827-17-7	259-364-6	616-001-00-x	Not hazardous at this concentration.	< 0.05 %

## 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### **General Advice**

Consult a doctor and show this safety data sheet.

#### If Inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

#### In Case of Skin Contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

#### In Case of Eye Contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

#### If Swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## 4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

5.2

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

# In combustion, may emit toxic fumes.

## 5.3 Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

#### 6. ACCIDENTIAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

#### 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

#### 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

## 7.2 Conditions for safe storage, including any incompatibilities

N,N-Dimethylformamide - Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Store locked up. Tetramethylbenzidine - Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

## 7.3 Specific end uses

Not applicable.

#### EXPOSURE CONTROLS/PERSONAL PROTECTION 8

#### 8.1 Control parameters

#### Components with workplace control parameters

#### Occupational exposure limit values (Workplace Exposure Limits

List source(s): EU - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC UK - EH40/2005 Work Exposure Limits, Third edition. Published 2018. IRE - 2018 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

Component	CAS No.	Agency	OELs	STEL
N, N – Dimethylformamide	68-12-2	OSHA (USA)	10 ppm 30 mg/m3	20 ppm 61 mg/m3
		European Union (IOELV)	5 ppm 15 mg/m3	10 ppm 30 mg/m3
		United Kingdom (UK)	5 ppm 15 mg/m3	10 ppm 30 mg/m3
		Ireland	5 ppm 15 mg/m3	10 ppm 30 mg/m3

#### Human Health Values

Component	Endpoint	Threshold Level	Protection goal / route of exposure	Use in	Exposure time
N, N – Dimethylformamide CAS No. 68-12-2	DNEL	6 mg/m3	Human, inhalation	Worker (industry)	Chronic – system effects
		1,1 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic – systemic effects

#### Environmental Values

Component	Endpoint	Threshold Level	Organism	Environmental compartment	Exposure time
N, N – Dimethylformamide CAS No. 68-12-2	PNEC	44 mg/l	Aquatic organisms	Sewage treatment plant (STP)	Short-term (single instance)
		111 mg/kg	Aquatic organisms	Freshwater sediment	Short-term (single instance)
		11,1 mg/kg	Aquatic organisms	Marine sediment	Short-term (single instance)

#### Tetramethylbenzidine

8.2

9.

54827-17-7

Contains no substances with occupational exposure limit values.

# Exposure controls

# Appropriate Engineering Controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure the facility is equipped with a safety shower and eye wash stations near point of use.

## **Personal Protective Equipment**

#### Eye / Face Protection

Use safety goggles with side protection and face shield

#### Skin Protection

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

## **Body Protection**

Wear appropriate protective clothing.

#### **Respiratory Protection**

Use appropriate respiratory protection if adequate exhaust ventilation is absent.

#### Environmental exposure controls

Prevent product from entering the drains. Dispose in accordance with federal, state and/or local regulations.

# PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance	Liquid	Vapor Pressure	No data available.
Odor	No data available.	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
рН	No data available.	Solubility(ies)	No data available.
Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
Boiling Point / Range	No data available.	Autoignition Temperature	No data available.

No data available. No data available. **Decomposition Temperature** Viscosity Explosive Properties

**Oxidizing Properties** 

No data available.

No data available.

No data available.

No data available.

Upper / Lower Flammability or Explosive No data available. Limits

#### 9.2 Other safety information

No data available.

#### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Stable under recommended transport or storage conditions.

#### Chemical stability 10.2

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4 Conditions to avoid

N,N-Dimethylformamide - Heat, moisture. Tetramethylbenzidine - Heat, flames, sparks.

#### 10.5 Incompatible materials

N,N-Dimethylformamide - Strong acids/alkalis, strong oxidizing/reducing agents. Tetramethylbenzidine - Strong oxidizing agents.

#### 10.6 Hazardous decomposition products

Strong acids/alkalis, strong oxidizing/reducing agents.

#### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

#### Acute Toxicity

N,N-Dimethylformamide - LD50 - Oral, Rat - 2,800 mg/kg Tetramethylbenzidine - No data available.

#### Skin Corrosion / Irritation

N,N-Dimethylformamide - Classified based on available data Tetramethylbenzidine - No data available.

#### Serious Eye Damage / Irritation

N.N-Dimethylformamide - Classified based on available data Tetramethylbenzidine - No data available.

## **Respiratory or Skin Sensitization**

N,N-Dimethylformamide - Classified based on available data Tetramethylbenzidine - No data available.

#### Germ Cell Mutagenicity

N,N-Dimethylformamide - Genotoxicity in vitro - mouse - lymphocyte, Mutation in mammalian somatic cells. Tetramethylbenzidine - Classified based on available data

#### Carcinogenicity

N,N-Dimethylformamide - Classified based on available data Tetramethylbenzidine - Not classified to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification at levels less than 0.1%.

#### **Reproductive Toxicity**

N,N-Dimethylformamide - May cause congenital malformation in the fetus. Presumed human reproductive toxicant. Tetramethylbenzidine - Classified based on available data

#### Specific Target Organ Toxicity - Single Exposure

Classified based on available data

#### Specific Target Organ Toxicity - Repeated Exposure

N,N-Dimethylformamide - Classified based on available data Tetramethylbenzidine - No data available.

#### Aspiration Hazard

N,N-Dimethylformamide - Classified based on available data Tetramethylbenzidine - No data available.

#### Symptoms / Routes of Exposure

Inhalation:	N,N-Dimethylformamide - Toxic if inhaled. May cause respiratory tract irritation. Tetramethylbenzidine - There may be irritation of the throat with a feeling of tightness in the chest.
Ingestion:	N,N-Dimethylformamide - May be harmful if swallowed. Tetramethylbenzidine - There may be irritation of the throat.
Skin:	N,N-Dimethylformamide - May be harmful if absorbed through the skin. May cause skin irritation. Tetramethylbenzidine - There may be mild irritation at the site of contact.

Eyes: N,N-Dimethylformamide - Causes serious eye irritation. Tetramethylbenzidine - There may be irritation and redness.

 Delayed / Immediate
 N,N-Dimethylformamide - No known symptoms.

 Effects:
 Tetramethylbenzidine - No data available.

## Additional Information

N,N-Dimethylformamide - Classified based on available data Tetramethylbenzidine - No data available.

12.	ECOLOGICAL INFORMATION
12.1	Toxicity
	No data available.
12.2	Persistence and degradability
	No data available.
12.3	Bioaccumulative potential
	No data available.
12.4	Mobility in soil
	No data available.
12.5	Results of PBT and vPvB assessment
	No data available.
12.6	Other adverse effects
	No data available.
13.	DISPOSAL CONSIDERATIONS
13.1	Waste treatment methods
	Product
	Dispose of contents/container in accordance with local/regional/national/international regulations.
	Contaminated Packaging
	Dispose of contents/container in accordance with local/regional/national/international regulations.
14.	TRANSPORT INFORMATION
	Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.
14.1	UN-Number
	Does not meet the criteria for classification as hazardous for transport.
14.2	UN proper shipping name
	Does not meet the criteria for classification as hazardous for transport.
14.3	Transport hazard class(es)
	Does not meet the criteria for classification as hazardous for transport.
14.4	Packaging group
	Does not meet the criteria for classification as hazardous for transport.
14.5	Environmental hazards
	Does not meet the criteria for classification as hazardous for transport.
14.6	Special precautions for users
	Does not meet the criteria for classification as hazardous for transport.
	Additional Transport Information

#### 15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act): N,N-Dimethylformamide – Is Listed. Tetramethylbenzidine - Is Listed.

SARA 313 : Not applicable.

SARA 311/312 : Not applicable.

CERCLA Reportable Quantity : Not applicable.

California Proposition 65 :

N,N-Dimethylformamide

WARNING: This product can expose you to chemicals including N,N-Dimethylformamide, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

#### National Inventories

#### **Country Specific Chemical Inventory Status**

	Australia (AIIC)	China (IECSC)	EU (ESCI)	EU REACH	Japan (CSCL-ENCS)	Korea (KECI)	New Zealand (NXIoC)	Philippines (PICCS)
N,N-Dimethylformamide	х	х	Х	X	х	х	Х	х

Legend: AIIC Australian Inventory of Industrial Chemicals; CICR Chemical Inventory and Control Regulation; CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS) DSL Domestic Substances List (DSL); ECSI EC Substance Inventory (EINECS, ELINCS, NLP); IECSC Inventory of Existing Chemical Substances Produced or Imported in China; KECI Korea Existing Chemicals Inventory; NZIoC New Zealand Inventory of Chemicals: PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS); REACH Reg. REACH registered substances; TCSI Taiwan Chemical Substance Inventory; TSCA Toxic Substance Control Act

#### Authorization / Restriction according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
N,N-Dimethylformamide		Use is restricted under specified conditions. See link for additional details. EU REACH Restriction - N,N- Dimethylformamide	SVHC Candidate list - (Toxic to Reproduction, Article 57c)

#### National Regulations

Component	Germany – Water Classification (VwVwS)	Germany – TA – Luft Class
N,N-Dimethylformamide	WGK 2	-

#### 15.2 Chemical safety assessment

An occupational exposure assessment for inhalation and dermal exposure was conducted, based on site specific conditions, and the results were found to be below the occupational exposure limits and derived no-effect limits (DNELs) for this product. Operational conditional and risk management measures described in this safety data sheet are determined adequate. Customers may conduct their own assessments to evaluate exposure within their operations and take appropriate risk management.

#### 16. OTHER INFORMATION

#### **Further Information**

Copyright © 2018 R&D Systems, Inc. a Bio-Techne Brand

This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet

# RD SYSTEMS a biotechne brand

.1	Product Identifiers					
	Product Name:	Stop Solution (contains Hyd	drochloric Acid < 5	%)		
.2	Relevant identified use	es of the substance or mixture	and uses advised	against		
	Identified Uses:	For Research Use Only				
.3	Details of the supplier					
	Company:	R&D Systems, Inc. a Bio-Te	echne Brand	Telephone:	1-800-343-7475	
		614 McKinley Place NE		Fax:	1-612-656-4400	
		Minneapolis, MN 55413, US	SA	Internet:	www.rndsystems.com	
				Email address:	info@bio-techne.com	
	Canada:	461 North Service Rd West	t	Telephone:	1-855-668-8722	
		Unit B37		Fax:	902-827-6402	
		Oakville, ON L6M 2V5		Email address:	Canada.inquiries@bio-techne.com	
	United Kingdom:	19 Barton Lane		Telephone:	44 (0)1235 529449	
	onited Kingdom.	Abingdon Science Park		Fax:	44 (0)1235 533420	
		Abingdon, OX14 3NB		Email address:	info.emea@bio-techne.com	
.4	Emergency Telephone	Number				
	Emergency Tel:	US: 612-379-2956 or 800-3	343-7475 / Europe	e: +44(0)1235-529449		
2.	HAZARDS IDENTIFIC	ATION				
2.1	Classification of the s	ubstance or mixture				
	This substance does no	ot meet the classification criteria	of the EC Directive	es 67/548/EEC, 1999/45/8	EC, 1272/2008 [CLP], GHS or 29 CFR 19 <sup>-</sup>	10.1200 [OSHA].
2.2	Label Elements					
2.2		eed to be labelled in accordance		s or respective national la	aws.	
		eed to be labelled in accordance		s or respective national la	aws.	
2.3	The product does not n Other Hazards - None		e with EC directive	s or respective national la	aws.	
2.3	The product does not n Other Hazards - None	eed to be labelled in accordance	e with EC directive	s or respective national la	aws.	
2.3 3.	The product does not n Other Hazards - None		e with EC directive	s or respective national la	aws.	
2.2 2.3 3. 3.1	The product does not n Other Hazards - None COMPOSITION/INFO		e with EC directive	s or respective national la	aws.	
2.3 3. 3.1	The product does not n Other Hazards - None COMPOSITION/INFO Substances		e with EC directive	s or respective national la	aws.	
2.3 3. 3.1	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable.		e with EC directive	s or respective national la	aws.	Conc.
2.3 3.	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures	RMATION ON INGREDIENTS	e with EC directive	·	Classification	<u>Conc.</u> < 5 %
2.3 3. 3.1	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component	RMATION ON INGREDIENTS CAS No.	e with EC directive	Index No.	Classification	
2.3 3. 3.1	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Hydrochloric Acid Water	CAS No.           7647-01-0           7732-18-5	EC No. 231-595-7	Index No.	Classification	< 5 %
2.3 3. 3.1	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Hydrochloric Acid	CAS No.           7647-01-0           7732-18-5	EC No. 231-595-7	Index No.	Classification	< 5 %
2.3 3. 3.1 3.2	The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Hydrochloric Acid Water	CAS No.           7647-01-0           7732-18-5	EC No. 231-595-7	Index No.	Classification	< 5 %
2.3 3. 3.1 3.2 4.	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Hydrochloric Acid Water FIRST AID MEASURI Description of first aid General Advice	RMATION ON INGREDIENTS CAS No. 7647-01-0 7732-18-5 ES I measures	EC No. 231-595-7	Index No.	Classification	< 5 %
2.3 3. 3.1 3.2	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Hydrochloric Acid Water FIRST AID MEASURI Description of first aid General Advice Consult a doctor and si	CAS No.           7647-01-0           7732-18-5	EC No. 231-595-7	Index No.	Classification	< 5 %
2.3 3. 3.1 3.2 4.	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Hydrochloric Acid Water FIRST AID MEASURI Description of first aid General Advice Consult a doctor and sli If Inhaled	RMATION ON INGREDIENTS CAS No. 7647-01-0 7732-18-5 ES I measures how this safety data sheet.	e with EC directive EC No. 231-595-7 231-791-2	Index No. 017-002-01	Classification 1-X	< 5 %
2.3 3. 3.1 3.2 4.	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Hydrochloric Acid Water FIRST AID MEASURI Description of first aid General Advice Consult a doctor and sti If Inhaled Move person into fresh	RMATION ON INGREDIENTS CAS No. 7647-01-0 7732-18-5 ES I measures how this safety data sheet. air. If not breathing, give artificia	e with EC directive EC No. 231-595-7 231-791-2	Index No. 017-002-01	Classification 1-X	< 5 %
2.3 3. 3.1 3.2	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Hydrochloric Acid Water FIRST AID MEASURI Description of first aid General Advice Consult a doctor and sti If Inhaled Move person into fresh In Case of Skin Contac	RMATION ON INGREDIENTS         CAS No.         7647-01-0         7732-18-5         ES         I measures         how this safety data sheet.         air. If not breathing, give artificia         at	EC No. 231-595-7 231-791-2	Index No. 017-002-01	Classification 1-X	< 5 %
2.3 3. 3.1 3.2	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Hydrochloric Acid Water FIRST AID MEASURI Description of first aid General Advice Consult a doctor and sli If Inhaled Move person into fresh In Case of Skin Contac Immediately take off contact	RMATION ON INGREDIENTS CAS No. 7647-01-0 7732-18-5 ES I measures how this safety data sheet. air. If not breathing, give artificia st intaminated clothing or shoes. W	EC No. 231-595-7 231-791-2	Index No. 017-002-01	Classification 1-X	< 5 %
2.3 3. 3.1 3.2	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Hydrochloric Acid Water FIRST AID MEASURI Description of first aid General Advice Consult a doctor and sli If Inhaled Move person into fresh In Case of Skin Contact Immediately take off co	RMATION ON INGREDIENTS CAS No. 7647-01-0 7732-18-5 ES I measures how this safety data sheet. air. If not breathing, give artificia st intaminated clothing or shoes. We	EC No. 231-595-7 231-791-2	Index No. 017-002-01 ult a physician. Show this soap and water. Consult	Classification 1-X	< 5 %
2.3 3. 3.1 3.2	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Hydrochloric Acid Water FIRST AID MEASURI Description of first aid General Advice Consult a doctor and st If Inhaled Move person into fresh In Case of Skin Contact Immediately take off co In Case of Eye Contact	RMATION ON INGREDIENTS CAS No. 7647-01-0 7732-18-5 ES I measures how this safety data sheet. air. If not breathing, give artificia st intaminated clothing or shoes. W	EC No. 231-595-7 231-791-2	Index No. 017-002-01 ult a physician. Show this soap and water. Consult	Classification 1-X	< 5 %
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2.3 3. 3.1 3.2	The product does not m Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Hydrochloric Acid Water FIRST AID MEASURI Description of first aid General Advice Consult a doctor and sl If Inhaled Move person into fresh In Case of Skin Contact Immediately take off co In Case of Eye Contact Rinse thoroughly with w If Swallowed Never give anything by	CAS No.         7647-01-0         7732-18-5         ES         I measures         how this safety data sheet.         air. If not breathing, give artificia         et         intaminated clothing or shoes. We water for at least 15 minutes and	e with EC directive EC No. 231-595-7 231-791-2 I respiration. Cons /ash with plenty of I immediately cons n. Rinse mouth wit	Index No. 017-002-01 ult a physician. Show this soap and water. Consult sult a physician.	Classification 1-X : MSDS. a physician.	< 5 %
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#### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

### Suitable extinguishing media

Use water spray or extinguishing measure that are appropriate to local circumstances and the surrounding environment. This product does not burn.

## 5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas.

#### 5.3 Precautions for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. ACCIDENTIAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use water spray or extinguishing measure that are appropriate to local circumstances and the surrounding environment.

#### 6.2 Environmental precautions

Hydrogen chloride gas.

#### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

#### 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Avoid contact with eyes and skin.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Do not store in metal containers.

#### 7.3 Specific end uses

Not applicable.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

## Components with workplace control parameters

				Workplace Ex	posure Limits	
			8 Hour TW	A	15 Min STE	EL
Component	CAS No.	Agency	ppm	mg.m <sup>-3</sup>	ppm	mg.m <sup>-3</sup>
Hydrochloric Acid	7647-01-0	OSHA	5	7		
		EH40	5	8	10	15
		NIOSH	5	7		
		ACGIH	5	7		

## 8.2 Exposure controls

#### Appropriate Engineering Controls

Use with adequate ventilation including local extraction. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Personal Protective Equipment**

#### Eye / Face Protection

Wear approved safety goggles.

#### **Skin Protection**

Handle with protective gloves, plastic or rubber. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved. Wear suitable protective clothing as protection against splashing or contamination.

#### **Respiratory Protection**

In case of inadequate ventilation, use a suitable respirator. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance

Colorless liquid

Vapor Pressure

Odor	Pungent	Vapor Density	No data available.	
Odor Threshold	No data available.	Relative Density	No data available.	
рН	~1 - 2	Solubility(ies)	Soluble	
Melting / Freezing Point	No data available.	Partition Coefficient	No data available.	
Boiling Point / Range	No data available.	Autoignition Temperature	No data available.	
Flash Point	No data available.	Decomposition Temperature	No data available.	
Evaporation Rate	No data available.	Viscosity	No data available.	
Flammability (Solid, Gas)	No data available.	Explosive Properties	No data available.	
Upper / Lower Flammability or Explo Limits	No data available.	Oxidizing Properties	No data available.	

#### 9.2 Other safety information

No data available.

## 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Stable under recommended transport or storage conditions.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4 Conditions to avoid

Hydroxides, amines, alkalis and metals.

#### 10.5 Incompatible materials

Hydroxides, amines, alkalis or metals such as copper, brass, zinc, potassium and sodium should be avoided.

#### 10.6 Hazardous decomposition products

Products formed under fire conditions: toxic gases and vapors such as chlorine.

## 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

#### Acute Toxicity

Irritating and corrosive to eyes, skin, and mucous membranes. Can cause severe burns upon contact while the vapors or mist are corrosive and can cause severe irritation or damage to the nose, throat and lungs. Ingestion of this product causes severe burns to the mouth, esophagus, and stomach, with consequent pain, nausea and vomiting.

#### Skin Corrosion / Irritation

Can cause burns of the skin and mucous membranes.

## Serious Eye Damage / Irritation

Can cause burns, reduced vision or blindness.

#### **Respiratory or Skin Sensitization**

Can cause severe burns. Causes respiratory tract irritation.

#### Germ Cell Mutagenicity

No data available

#### Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric acid).

## **Reproductive Toxicity**

No data available

#### Specific Target Organ Toxicity - Single Exposure

3

## Specific Target Organ Toxicity - Repeated Exposure

No data available

## Aspiration Hazard

No data available

## Symptoms / Routes of Exposure

Inhalation:	Inhalation of vapors can cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract and in severe cases, pulmonary edema, circulatory failure, and death. / Long term exposure to vapors may cause erosion of teeth. Long term exposures seldom occur due to the corrosive properties of this acid.
Ingestion:	Harmful if swallowed. Irritating to mouth, throat and stomach.
Skin:	Causes skin irritation.
Eyes:	Causes eye burns.

Short-term exposure potential immediate effects: Exposure to vapor or aerosol produces inflammation and may cause ulceration of the nose, throat, and larynx; laryngeal spasm or. Eye and skin burns occur at high concentrations. Burns of the skin and mucous membranes result from contact with the solution. Short-term exposure potential delayed effects: Burns may progress to ulcerations and to keloid and retractile scarring. Pulmonary edema may occur on rare occasions. Chronic exposure by skin contact with aqueous solutions may result in dermatitis and photosensitization. Dental discoloration and erosion.

## Additional Information

Classified based on available data

#### 12. ECOLOGICAL INFORMATION

12.1 Toxicity

High concentrations may be toxic to aquatic life.

## 12.2 Persistence and degradability

When released into the soil, this material is not expected to degrade without pretreatment and may leach into groundwater.

12.3 Bioaccumulative potential

No data available.

## 12.4 Mobility in soil

Liquid may leach into groundwater.

12.5 Results of PBT and vPvB assessment

#### No data available

12.6 Other adverse effects

No data available.

#### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### Product

Dispose of waste in accordance to applicable national, regional, or local regulations. This material should be handled as hazardous waste by a licensed disposal company.

Not applicable.

#### **Contaminated Packaging**

Dispose in the same manner as unused product.

#### 14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.

## 14.1 UN-Number

Does not meet the criteria for classification as hazardous for transport.

#### 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

#### 14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

## 14.4 Packaging group

15.1

Does not meet the criteria for classification as hazardous for transport.

#### 14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

#### 14.6 Special precautions for users

Does not meet the criteria for classification as hazardous for transport.

## Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act): Listed SARA 313: Not Applicable SARA 311/312: Listed CERCLA Reportable Quantity: 5,000 lbs. California Proposition 65:

Hydrochloric Acid

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

#### Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet