

1.	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND OF THE C	OMPANY/UNDERTAKI	NG			
1.1	Product Identifiers						
	Product Name: Catalog Number:	Human IL-33 Quantikine ELISA Kit D3300B					
	Components:	Assay Diluent (contains Proclin 300 Mixture Calibrator Diluent (contains Proclin 300 Mix Color Reagent A Color Reagent B (contains N,N-Dimethylfo Standard (contains Proclin 300 Mixture = .0 Stop Solution (contains Sulfuric Acid) Wash Buffer Concentrate (contains Proclin	xture = .025%) rmamide and Tetramethyll 005%)	benzidine)			
1.2	Relevant identified us	es of the substance or mixture and uses advise	ed against				
	Identified Uses:						
1.3	Details of the supplier	r of the safety data sheet					
	Company:	R&D Systems, Inc. a Bio-Techne Brand 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone: Fax: Internet: Email address:	1-800-343-7475 1-612-656-4400 www.rndsystems.com info@bio-techne.com			
	Canada:	461 North Service Rd West Unit B37 Oakville, ON L6M 2V5	Telephone: Fax: Email address:	1-855-668-8722 902-827-6402 Canada.inquiries@bio-techne.com			
	United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone: Fax: Email address:	44 (0)1235 529449 44 (0)1235 533420 info.emea@bio-techne.com			
1.4	Emergency Telephone	e Number					
	Emergency Tel:	US: 612-379-2956 or 800-343-7475 / Euro	pe: +44(0)1235-529449				

## 2. HAZARDS IDENTIFICATION

See additional safety data sheets.

# ROSYSTEMS a biotechne brand

#### IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1. 1.1 Product Identifiers Assay Diluent (contains Proclin 300 Mixture = .005%) Product Name: 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified Uses: Details of the supplier of the safety data sheet 1.3 Company: R&D Systems, Inc. a Bio-Techne Brand Telephone: 1-800-343-7475 614 McKinley Place NE 1-612-656-4400 Fax: 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 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). HAZARDS IDENTIFICATION 2. 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA] Sensitization, skin - Category 1 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/fumes/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. 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. P362+P364 Take off contaminated clothing and wash it before reuse. 2.3 Other Hazards - None COMPOSITION/INFORMATION ON INGREDIENTS 3. 3.1 Substances Not applicable. 3.2 Mixtures EC No. CAS No. Classification Component Index No. Proclin 300 Mixture = .005% (active 96118-96-6 H317 ingredients) Mixture of 5-Chloro-2-Methyl-4-613-167-00-5 55965-84-9 Isothiazolin-3-One (26172-55-4) and 2-Methyl-4-Isothiazolin-3-One (2682-20-4)

#### FIRST AID MEASURES 4.

Conc.

= 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.
pH	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.

Effects:

## 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.

**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.

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 = .005%

#### 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

			Salety Data Sile		www.masystems.c
	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND OF	THE COMPANY/UNDERTAK	ING	
1	Product Identifiers				
	Product Name:	Calibrator Diluent (contains Proclin	300 Mixture = .025%)		
2	Relevant identified us	es of the substance or mixture and use	s advised against		
	Identified Uses:				
3	Details of the supplier	of the safety data sheet			
	Company:	R&D Systems, Inc. a Bio-Techne Br	rand 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)1225 520440	
	Onited Kingdom.	Abingdon Science Park	Fax:	44 (0)1235 529449 44 (0)1235 533420	
		Abingdon, OX14 3NB	Email address:	info.emea@bio-techne.com	
1	Emergency Telephone	-		-	
	Emergency Tel:	US: 612-379-2956 or 800-343-747	5 / Europe: +44(0)1235-529449		
	HAZARDS IDENTIFIC	CATION			
1	Classification of the s	ubstance or mixture			
				5/EC, 1272/2008 [CLP], GHS or 29 CFR 1910.	
2	Label Elements		5 Directives 07/546/EEC, 1999/4	5/EC, 12/2/2008 [CEF], GH3 01 29 CFK 1910.	1200 [OSHA].
-			0 dia ati ang ang ang ati ang ati ang	L I avec	
		need to be labelled in accordance with EC	J directives or respective nationa	i laws.	
3	Other Hazards - None				
	COMPOSITION/INFO	PRMATION ON INGREDIENTS			
1	Substances				
	Not applicable.				
2	Mixtures				
	Component	CAS No. EC	No. Index No	Classification	Conc.
	Proclin 300 Mixture = .( ingredients)	025% (active 96118-96-6			
	Mixture of 5-Chloro-2 Isothiazolin-3-One (2 and 2-Methyl-4-Isothi One (2682-20-4)		613-167-	-00-5	= 0.025 %
	FIRST AID MEASUR	ES			
I	Description of first aid				
	General Advice				
		how this safety data sheet.			
	If Inhaled	2			
		d monitor breathing. If breathing become	s difficult, give oxygen. If breathir	ng stops, give artificial respiration. Consult a do	ctor.
	In Case of Skin Contac				
	Immediately wash skin	with copious amounts of soap and wate	r for at least 15 minutes. Remov	e contaminated clothing and shoes and wash t	pefore reuse. Consult a docto
	In Case of Eye Contact	t			
	Flush with copious amo	ounts of water for at least 15 minutes. Co	onsult a doctor.		
	If Swallowed				
	Rinse mouth with wate	r. Do not induce vomiting unless directed	I to do so by medical personnel. I	Never give anything by mouth to an unconsciou	is person. Consult a doctor.
2	Most important sympt	toms and effects, both acute and delaye	bq		
	To the best of our know	vledge, the chemical, physical and toxicol	logical properties have not been t	thoroughly investigated.	
3	Indication of immedia	te medical attention and special treatme	ent needed		
	Indication of immedia	te medical attention and special treatme	ent needed		7 of 30

#### 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.
pH	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 Explosive	No data available.	Explosive Properties	No data available.
	Limits	V OI Explosive	No data available.	Oxidizing Properties	No data available.
2	Other safety information				
	No data available.				
).	STABILITY AND REACTI	VITY			
D.1	Reactivity				
	Stable under recommended	l transport or st	orage conditions.		
0.2	Chemical stability				
	Stable under recommended	l storage condi	tions.		
).3	Possibility of hazardous re	-			
			ormal transport or storage co	nditions. Decomposition may occur on exposure	to conditions or materials listed below.
).4	Conditions to avoid				
	Heat, moisture.				
0.5	Incompatible materials				
	Strong acids/alkalis, strong	oxidisina/reduc	ing agents		
0.6	Hazardous decomposition		agonto.		
	Strong acids/alkalis, strong		ing agents.		
1.	TOXICOLOGICAL INFOR				
1.1	Information on toxicologic	al effects			
	Acute Toxicity				
	Classified based on availab	ole data			
	Skin Corrosion / Irritation				
	Classified based on availab	ole data			
	Serious Eye Damage / Irrita				
	Classified based on availab	ole data			
	Respiratory or Skin Sensiti	zation			
	Classified based on availab	ole data			
	Germ Cell Mutagenicity				
	Classified based on availab	ole data			
	Carcinogenicity				
	Classified based on availab	ole data			
	Reproductive Toxicity				
	Classified based on availab	ole data			
	Specific Target Organ Toxi	city - Single Ex	posure		
	Classified based on availab	ole data			
	Specific Target Organ Toxi	city - Repeated	Exposure		
	Classified based on availab	ole data			
	Aspiration Hazard				
	Classified based on availab	ole data			
	Symptoms / Routes of Exp	osure			
	Inhalation:	There may be ir	ritation of the throat with a fee	eling of tightness in the chest.	
	Ingestion:	There may be ir	ritation of the throat.		
	Skin:	There may be n	nild irritation at the site of cont	act.	
	Eyes:	There may be in	ritation and redness.		
	Delayed / Immediate Effects:	No known symp	otoms.		
	Additional Information				
	Classified based on availab				

# 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

# RD SYSTEMS a biotechne brand

Version 2.0 SDS Revision Date 10/27/2023 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 Telephone: 1-855-668-8722 Canada: Unit B37 Fax: Email address: 902-827-6402 Oakville, ON L6M 2V5 ∟ iries@bio-techne.com

	Oakville, ON LOW 203	Linai address.	Canada.inquines@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 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

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

Danger

Pictogram(s):

Signal Word:

H360



-	
Hazard Statement(s):	
H312	
H315	
H319	
H332	

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

. 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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 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.

Decomposition Temperature Viscosity Explosive Properties

Upper / Lower Flammability or Explosive 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

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.

No data available. No data available. No data available.

Oxidizing Properties

No data available.

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: AllC 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 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**

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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

0.			Sale	ely Dala Shee	ŧL	www			
1.	IDENTIFICATION OF THE S	SUBSTANCE/MIXTUR	E AND OF THE COM	IPANY/UNDERTAKIN	NG				
1.1	Product Identifiers								
	Product Name: S	Standard (contains Procl	in 300 Mixture = .005	%)					
1.2	Relevant identified uses of the	he substance or mixtur	e and uses advised a	against					
	Identified Uses:								
1.3	Details of the supplier of the	safety data sheet							
	Company: F	R&D Systems, Inc. a Bio-	Techne Brand	Telephone:	1-800-343-7475				
	6	314 McKinley Place NE		Fax:	1-612-656-4400				
	Ν	Ainneapolis, MN 55413,	USA	Internet:	www.rndsystems.com				
				Email address:	info@bio-techne.com				
	Canada: 4	61 North Service Rd We	est	Telephone:	1-855-668-8722				
	ι	Jnit B37		Fax:	902-827-6402				
	C	Dakville, ON L6M 2V5		Email address:	Canada.inquiries@bio-techne.com				
				<b>-</b>	11 (0) 1005 500 110				
	0	9 Barton Lane		Telephone: Fax:	44 (0)1235 529449				
		Abingdon Science Park Abingdon, OX14 3NB		Email address:	44 (0)1235 533420 info.emea@bio-techne.com				
1.4	Emergency Telephone Numb	<b>.</b> .							
	For chemical emergency, spill		accident call CHEMT	REC day or night					
	Within USA and Canada: 1-80				alls accepted).				
2.	HAZARDS IDENTIFICATIO	N							
2.1	Classification of the substar	Classification of the substance or mixture							
	Classification according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]								
	Sensitization, skin - Category			•	-				
2.2									
2.2	Label Elements Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP]								
	Pictogram(s):								
	Signal Word: V	Varning							
	Hazard Statement(s):								
	H317	May cause an alle	ergic skin reaction.						
	Precautionary Statement(s):								
	P261	Avoid breathing d	ust/fumes/gas/mist/va	apours/sprav					
	P272	Contaminated wo	rk clothing should no	t be allowed out of the					
	P280 P302+352		loves/protective clothi h with plenty of soap a	ing/eye protection/face   and water	protection.				
	P333+313			dical advice/attention.					
	P362+P364	Take off contamin	ated clothing and wa	sh it before reuse.					
2.3	Other Hazards - None								
3.	COMPOSITION/INFORMAT	TION ON INGREDIENT	rs						
3.1	Substances								
	Not applicable.								
3.2	Mixtures								
	Component	CAS No.	EC No.	Index No.	Classification				
	Proclin 300 Mixture = .005% ( ingredients)	active 96118-96-6			H317				
	Mixture of 5-Chloro-2-Methy	I-4- 55965-84-9		613-167-0	00-5				
	Isothiazolin-3-One (26172- and 2-Methyl-4-Isothiazolin- One (2682-20-4)								

Conc.

= 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.
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)	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.

Effects:

## 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.

**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.

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 = .005%

#### 15.2 Chemical safety assessment

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

## 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

#### IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1. 1.1 Product Identifiers Stop Solution (contains Sulfuric Acid) Product Name: 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified Uses: Details of the supplier of the safety data sheet 1.3 Company: R&D Systems, Inc. a Bio-Techne Brand Telephone: 1-800-343-7475 614 McKinley Place NE 1-612-656-4400 Fax: 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 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]

Skin Corrosion/Irritation - Category 2 Serious eye damage/eye irritation - Category 2A

#### 2.2 Label Elements

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

Pictogram(s):

\_ <!

Signal Word:	Warning
Hazard Statement(s):	
H315 H319	Causes skin irritation. Causes serious eye irritation.

Precautionary Statement(s): Wash hands thoroughly after handling. P264 P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+352 IF ON SKIN: Wash with plenty of soap and water. P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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.

2.3 Other Hazards - None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable.

## 3.2 Mixtures

Component	CAS No.	EC No.	Index No.	Classification	Conc.
Sulfuric Acid	7664-93-9	231-639-5	016-020-00-8	H315 , H319	= 9.8 %
Water	7732-18-5	231-791-2			= 90.2 %

-	
	General Advice
	Consult a doctor and show this safety data sheet.
	If Inhaled
	Move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Show this MSDS.
	In Case of Skin Contact Immediately take off contaminated clothing or shoes. Wash with plenty of soap and water. Consult a physician.
	In Case of Eye Contact
	Rinse thoroughly with water for at least 15 minutes and immediately consult a physician.
	If Swallowed
	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately consult a physician. Show this MSDS.
4.2	Most important symptoms and effects, both acute and delayed
	See Section 11.
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 case of fire, toxic and corrosive gases may be formed.
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 appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
6.2	Environmental precautions
	Keep away from drains.
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. Use normal measures for preventive fire protection.
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.
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 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

4.1

Description of first aid measures

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	No data available.
Odor	Pungent	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
рН	~1	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 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

Contact with metals produces highly flammable hydrogen gas. Addition of water liberates excessive heat.

#### 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

Bases, Halides, Metals, Alkalis, Acetonitrile.

## 10.5 Incompatible materials

Most metals, oxidizers, reducers, bases, metal carbonates, cyanides, sulphides, carbides, oxides, metal acetylides, hydrides, halogens, organic or combustible materials, percholorates, acetonitrile, permanganates, alcohols, picrates.

## 10.6 Hazardous decomposition products

Products formed under fire conditions: oxides of sulphur, hydrogen gas.

#### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

## Acute Toxicity

Can cause severe burns upon contact while the vapours or mist are corrosive and can cause severe irritation or damage to the nose, throat and lungs. Ingestion of this product causes pain, nausea and vomiting and may be fatal if large doses are ingested.

#### Skin Corrosion / Irritation

Can cause severe burns.

## Serious Eye Damage / Irritation

Can cause severe burns.

#### **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

Can cause severe burns.

## Symptoms / Routes of Exposure

Inhalation:	Harmful if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion:	Harmful if swallowed. Irritating to mouth, throat and stomach. Causes burns.
Skin:	Causes skin irritation / causes burns.
Eyes:	Causes serious eye irritation / causes burns.
Delayed / Immediate Effects:	Repeated skin contact with this product may lead to dermatitis while repeated inhalation may cause bronchitis, conjunctivitis, respiratory infections, emphysema and digestive disturbances. May cause erosion and discoloration of the teeth.

#### Additional Information

Classified based on available data

#### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

This product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

# 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 waste in accordance to applicable national, regional, or local regulations.

#### 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

UN2796

## 14.2 UN proper shipping name

Battery fluid, acid or Sulfuric acid with not more than 51 percent acid

#### 14.3 Transport hazard class(es)

8

Ш

## 14.4 Packaging group

## 14.5 Environmental hazards

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

## 14.6 Special precautions for users

No data available.

## Additional Transport Information

No data available.

# 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): On TSCA Inventory SARA 313: Not applicable. SARA 311/312: Acute health hazard CERCLA Reportable Quantity: 1000 lbs. California Proposition 65: Sulfuric Acid

## 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

5			Safety Data Shee	et	www.rndsystems.co	
	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND C	OF THE COMPANY/UNDERTAKIN	IG		
.1	Product Identifiers					
	Product Name:	Wash Buffer Concentrate (contain	ns Proclin 300 Mixture = .025%)			
2	Relevant identified us	es of the substance or mixture and us				
	Identified Uses:					
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		
	e e inpany:	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		
	onited Kingdoni.	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	75 / Europe: +44(0)1235-529449			
	HAZARDS IDENTIFIC	ATION				
1	Classification of the s	ubstance or mixture				
			EC Directives 67/548/EEC. 1999/45	/EC, 1272/2008 [CLP], GHS or 29 CFR 1910	0.1200 [OSHA].	
2	Label Elements			, <b>,</b>		
-		need to be labelled in accordance with E	EC directives or respective national	laws		
3	Other Hazards - None					
1	Substances Not applicable.					
2	Mixtures					
	Component	CAS No. E	C No. Index No.	Classification	Conc.	
	Proclin 300 Mixture = .0 ingredients)	025% (active 96118-96-6				
	Mixture of 5-Chloro-2- Isothiazolin-3-One (2 and 2-Methyl-4-Isothi One (2682-20-4)		613-167-0	00-5	= 0.025 %	
	FIRST AID MEASURE	ES				
1	Description of first aid measures					
	General Advice					
	General Auvice					
		how this safety data sheet.				
	Consult a doctor and sl If Inhaled		nes difficult, give oxvaen. If breathing	a stops, give artificial respiration, Consult a c	loctor.	
	Consult a doctor and sl If Inhaled	d monitor breathing. If breathing becom	nes difficult, give oxygen. If breathing	g stops, give artificial respiration. Consult a c	loctor.	
	Consult a doctor and sl If Inhaled Remove to fresh air and In Case of Skin Contac	d monitor breathing. If breathing becom		g stops, give artificial respiration. Consult a c contaminated clothing and shoes and wasł		
	Consult a doctor and sl If Inhaled Remove to fresh air and In Case of Skin Contac	d monitor breathing. If breathing becom t with copious amounts of soap and wa				
	Consult a doctor and si If Inhaled Remove to fresh air and In Case of Skin Contac Immediately wash skin In Case of Eye Contact	d monitor breathing. If breathing becom t with copious amounts of soap and wa	ter for at least 15 minutes. Remove			
	Consult a doctor and si If Inhaled Remove to fresh air and In Case of Skin Contac Immediately wash skin In Case of Eye Contact	d monitor breathing. If breathing becom t with copious amounts of soap and wa	ter for at least 15 minutes. Remove			
	Consult a doctor and sl If Inhaled Remove to fresh air and In Case of Skin Contac Immediately wash skin In Case of Eye Contact Flush with copious and If Swallowed	d monitor breathing. If breathing becom t with copious amounts of soap and wa bounts of water for at least 15 minutes. C	ter for at least 15 minutes. Remove Consult a doctor.		n before reuse. Consult a doctor	
2	Consult a doctor and si If Inhaled Remove to fresh air and In Case of Skin Contac Immediately wash skin In Case of Eye Contact Flush with copious amo If Swallowed Rinse mouth with water	d monitor breathing. If breathing becom st with copious amounts of soap and wa bounts of water for at least 15 minutes. C	ter for at least 15 minutes. Remove Consult a doctor. ed to do so by medical personnel. N	contaminated clothing and shoes and wash	n before reuse. Consult a doctor	
2	Consult a doctor and si If Inhaled Remove to fresh air and In Case of Skin Contac Immediately wash skin In Case of Eye Contact Flush with copious amo If Swallowed Rinse mouth with water Most important sympt	d monitor breathing. If breathing becom st with copious amounts of soap and wa t bunts of water for at least 15 minutes. O r. Do not induce vomiting unless directe	ter for at least 15 minutes. Remove Consult a doctor. ed to do so by medical personnel. N <b>yed</b>	contaminated clothing and shoes and wash	n before reuse. Consult a doctor.	
2	Consult a doctor and si <b>If Inhaled</b> Remove to fresh air and <b>In Case of Skin Contac</b> Immediately wash skin <b>In Case of Eye Contact</b> Flush with copious amo <b>If Swallowed</b> Rinse mouth with water <b>Most important sympt</b> To the best of our know	d monitor breathing. If breathing become t with copious amounts of soap and wa t bunts of water for at least 15 minutes. O r. Do not induce vomiting unless directe oms and effects, both acute and delay	ter for at least 15 minutes. Remove Consult a doctor. ed to do so by medical personnel. N <b>yed</b> cological properties have not been th	contaminated clothing and shoes and wash	n before reuse. Consult a doctor.	
	Consult a doctor and si <b>If Inhaled</b> Remove to fresh air and <b>In Case of Skin Contac</b> Immediately wash skin <b>In Case of Eye Contact</b> Flush with copious amo <b>If Swallowed</b> Rinse mouth with water <b>Most important sympt</b> To the best of our know	d monitor breathing. If breathing become t with copious amounts of soap and wa t bunts of water for at least 15 minutes. O r. Do not induce vomiting unless directe oms and effects, both acute and delay vledge, the chemical, physical and toxic	ter for at least 15 minutes. Remove Consult a doctor. ed to do so by medical personnel. N <b>yed</b> cological properties have not been th	contaminated clothing and shoes and wash	n before reuse. Consult a doctor.	

#### 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.
pH	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 Exp	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 transp	ort or storage conditions.			
0.2	Chemical stability				
	Stable under recommended storage conditions.				
0.3	Possibility of hazardous reactions				
			nditions. 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 oxidisir	na/reducina agents.			
0.6	Hazardous decomposition produc				
-	Strong acids/alkalis, strong oxidisir				
1. 	TOXICOLOGICAL INFORMATIO				
1.1	Information on toxicological effect	ts			
	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				
		hay be irritation of the throat with a feel	ing of tightness in the chest.		
	Ingestion: There m	hay be irritation of the throat.			
	Skin: There m	nay be mild irritation at the site of conta	act.		
	Eyes: There m	nay be irritation and redness.			
	Delayed / Immediate No know Effects:	wn 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