

 Product Identifiers Product Name: Recombinant Human Active MEK1 Kinase Protein, CF Catalog Number: 11584-ME Relevant identified uses of the substance or mixture and uses advised againtering Identified Uses: For research use only. Details of the supplier of the supplier of the substance or mixture and uses advised againtering Relevant identified Uses: Relevant identified Uses: For research use only. Company: Read State St					
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Identified Uses: 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					
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Email address: info@bio-techne.com					
Canada: 21 Canmotor Ave Telephone: 1-855-668-8722					
Toronto, ON M8Z 4E6 Fax: 902-827-6402					
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					
China: 1193 Changning Road Telephone: 86-400-821-3475					
Unit 1901, Raffles Changning Office Fax: 76 (021) 52371001					
Shanghai, China Email address: techsupport.cn@bio-techne.com					
1.4 Emergency Telephone Number					
Bio-Techne Tel: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475 HAZARDS IDENTIFICATION					
Classification of the substance or mixture					
This substance does not meet the classification criteria according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA].					
2.2 Label Elements					
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Rinse mouth with water. Consult a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Odor Threshold

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No data available.

No data available.

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. FIRE-FIGHTING MEASURES 5. 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. ACCIDENTAL 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. EXPOSURE CONTROLS/PERSONAL PROTECTION 8. 8.1 **Control parameters** Components with workplace and 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. 8.3 **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 Lyophilized white powder or clear liquid Vapor Pressure No data available. Appearance Odor Little to none. Vapor Density No data available.

Relative Density

Solubility

No data available.

No data available.

	Malting (Excelsion Date)	No. John Strategie	Partition Coefficient	No. Jaka and Hable		
	Melting / Freezing Point Boiling Point / Range	No data available. No data available.	Auto ignition Temperature	No data available. 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	No data available.	Oxidizing Properties	No data available.		
	Explosive Limits		Oxidizing Properties			
.2	Other safety information No data available.					
0.	STABILITY AND REACTIVITY					
10.1	Reactivity					
	Stable under recommended transport	t or storage conditions.				
10.2	Chemical stability					
	Stable under recommended storage conditions.					
0.3	Possibility of hazardous reactions					
10.4	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.					
0.4	Conditions to avoid					
0 5	Heat, moisture.					
0.5	Incompatible materials Strong acids/alkalis, strong ovidizing/reducing agents					
	Strong acids/alkalis, strong oxidizing/reducing agents.					
0.6	Hazardous decomposition products Strong acids/alkalis, strong ovidizing/reducing agents					
1.	Strong acids/alkalis, strong oxidizing/reducing agents.					
	TOXICOLOGICAL INFORMATION					
1.1	Information on toxicological effect	S				
	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:	No known symptoms.				
	Ingestion:	No known symptoms.				
	Skin:	No known symptoms.				
	Eyes:	No known symptoms.				
	Delayed/Immediate Effects:	No known symptoms.				
	Additional Information					
	Classified based on available data					
2.	ECOLOGICAL INFORMATION					
2.1	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 Endocrine disrupting properties No data available 12.7 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. 14.7 Additional Transport Information Does not meet the criteria for classification as hazardous for transport. 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 and 29 CFR 1910.1200 [OSHA] 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

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.