# RD SYSTEMS a biotechne brand

1.	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND OF THE C	OMPANY/UNDERTAKI	NG			
1.1	Product Identifiers						
	Product Name: Catalog Number:	Recombinant Human Oncostatin M (OSM) 295-OM	Protein				
	Components:	Acetonitrile TFA - Liquid Acetonitrile TFA - Lyophilized					
1.2	Relevant identified us	es of the substance or mixture and uses advise	ed against				
	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			
	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	e Number					
	Emergency Tel: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475						

Emergency Tel: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475

# 2. HAZARDS IDENTIFICATION

See additional safety data sheets.

# **R**DSYSTEMS a biotechne brand

1.	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
1.1	Product Identifiers			
	Product Name:	Acetonitrile TFA - Liquid		
1.2	Relevant identified uses	of the substance or mixture and uses advise	ed against	
	Identified Uses:	For Research Use Only		
1.3	Details of the supplier o	f 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:	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 N	Emergency Telephone Number		

#### 1.4 Emergency Telephone Numbe

For chemical emergency, spill, leak, fire, exposure, or accident call CHEMTREC day or night:

Within U.S. 1-800-262-8200. Worldwide 1-703-741-5500. Bio-Techne Tel: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475

#### 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]

Flammable liquids - Category 2 Acute Toxicity, oral - Category 4 Acute Toxicity, dermal - Category 4 Eye Irritation - Category 2A Acute Toxicity, inhalation - Category 4

#### 2.2 Label Elements

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

Pictogram(s):

Danger

Signal Word:

Hazard Statement(s):

Precautionary Statement(s):

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only in well-ventilated areas.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+312	IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
P312	Call poison center/doctor if you feel unwell.
P321	Specific treatment (see Section 4).
P330	Rinse mouth.
P337+313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+378	In Case of Fire: Use dry chemical, CO2, or alcohol resistant foam.
Other Herende, None	

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.
Acetonitrile Solution	75-05-8	200-835-2		H225 , H302 , H312 , H319 , H332	30 - 40 %
Trifluoroacetic Acid	76-05-1	200-929-3			= 0.1 %
Water	7732-18-5	231-791-2			60 - 70 %

#### 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

#### **General Advice**

Consult a doctor and show this safety data sheet.

### If Inhaled

Acetonitrile Solution - Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

Trifluoroacetic Acid - 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

Acetonitrile Solution - Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Trifluoroacetic Acid - 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

Acetonitrile Solution - Flush with copious amounts of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If eye irritation persists, consult a doctor. Trifluoroacetic Acid - Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

#### If Swallowed

Acetonitrile Solution - Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight cothing such as a collar, tie, belt or waistband.

Trifluoroacetic Acid - 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

Acetonitrile Solution - Dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Trifluoroacetic Acid - Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Acetonitrile Solution - Use water spray to cool unopened containers.

# 5.2 Special hazards arising from the substance or mixture

Acetonitrile Solution - Emits toxic fumes under fire conditions. Carbon oxides. Trifluoroacetic Acid - In combustion, may emit toxic fumes.

# 5.3 Precautions for fire-fighters

Acetonitrile Solution - Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Trifluoroacetic Acid - 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

Acetonitrile Solution - Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate all personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Trifluoroacetic Acid - 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

Acetonitrile Solution - Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Trifluoroacetic Acid - Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Acetonitrile Solution - Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

Trifluoroacetic Acid - 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

Acetonitrile Solution - Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Trifluoroacetic Acid - 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

Acetonitrile Solution - Store in cool, well-ventilated area. Keep cool. Keep container tightly sealed until ready to use.

Trifluoroacetic Acid - 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

Acetonitrile Solution - STEL: 102 mg/m3 15 minutes. TWA: 68 mg\m3 8 hours.

Trifluoroacetic Acid - 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	
Odor	
Odor Threshold	

# Colorless liquid No data available. No data available.

Vapor Pressure Vapor Density Relative Density No data available. No data available. No data available.

#### 9.2 Other safety information

No data available.

#### STABILITY AND REACTIVITY 10.

#### 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

Acetonitrile Solution - Avoid all sources of ignition (heat, spark, flame and direct sunlight.) Trifluoroacetic Acid - Heat, moisture.

#### 10.5 Incompatible materials

Acetonitrile Solution - Strong acids/alkalis, strong oxidizing/reducing agents. May attach plastics, rubbers and coatings. Trifluoroacetic Acid - Strong acids/alkalis, strong oxidising/reducing agents.

#### 10.6 Hazardous decomposition products

Acetonitrile Solution - In combustion may emit toxic fumes such as hydrogen cyanide (hydrocyanide acid), carbon dioxide, carbon monoxide or oxides of nitrogen. Trifluoroacetic Acid - Strong acids/alkalis, strong oxidising/reducing agents.

#### TOXICOLOGICAL INFORMATION 11.

#### 11.1 Information on toxicological effects

# Acute Toxicity

Acetonitrile Solution - LD50 rat oral - Dose: 2460 mg/kg; Dermal: LD50 rabbit - Dose: >2000 mg/kg, Inhalation: LD50 rat - Dose: 12.68 mg/L with 8 hours of exposure Trifluoroacetic Acid - Classified based on available data

#### Skin Corrosion / Irritation

Acetonitrile Solution - Mild irritant rabbit Trifluoroacetic Acid - Classified based on available data

#### Serious Eye Damage / Irritation

Acetonitrile Solution - Moderate irritant rabbit Trifluoroacetic Acid - 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:	Acetonitrile Solution - Adverse symptoms may include the following: irritation, redness. Trifluoroacetic Acid - There may be mild irritation at the site of contact.
Eyes:	Acetonitrile Solution - Adverse symptoms may include the following: pain or irritation, watering, redness. Trifluoroacetic Acid - There may be irritation and redness.
Delayed / Immediate	No known symptoms.

Effects:

Classified based on available data

# 12. ECOLOGICAL INFORMATION

## 12.1 Toxicity

Acetonitrile Solution - Acute LC50 3600000 µg/L Fresh water Daphnia - Daphnia magna - <24 hours. Acute LC50 >1500 mg/L Fresh water Fish - Pimephales promelas - Juvenile) - 0.2 to 0.5 g at 96 hours. Trifluoroacetic Acid - No data available.

# 12.2 Persistence and degradability

No data available.

#### 12.3 Bioaccumulative potential

Acetonitrile Solution - Potential low. Trifluoroacetic Acid - 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

Acetonitrile Solution - Dispose of waste in accordance to applicable national, regional, or local regulations.

Trifluoroacetic Acid - 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

Acetonitrile Solution - UN1993

Trifluoroacetic Acid - Does not meet the criteria for classification as hazardous for transport.

## 14.2 UN proper shipping name

Acetonitrile Solution - Flammable liquids, n.o.s.

Trifluoroacetic Acid - Does not meet the criteria for classification as hazardous for transport.

# 14.3 Transport hazard class(es)

Acetonitrile Solution - 3

Trifluoroacetic Acid - Does not meet the criteria for classification as hazardous for transport.

# 14.4 Packaging group

Acetonitrile Solution - II

Trifluoroacetic Acid - 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

1.	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING						
1.1	Product Identifiers						
	Product Name:	Acetonitrile TFA - Lyophilized					
1.2	Relevant identified us	ses of the substance or mixture and uses advis	sed against				
	Identified Uses:	For Research Use Only					
1.3	Details of the supplie	r 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:	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			
	onned Kingdom.	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			
	<b>F</b>	Shanghai , China	Email address:	techsupport.cn@bio-techne.com			
1.4	Emergency Telephone			China 80 400 804 2475			
	Emergency Tel:	US: 612-379-2956 or 800-343-7475 / Euro	ope: +44(0)1235-5294497	China 80-400-821-3475			
2.	HAZARDS IDENTIFI	CATION					
2.1	Classification of the s						
	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].				1200 [USHA].		
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						
		contain hazardous chemicals at concentrations	of 1% or greater. This proc	luct is not known to contain carcinogens at con	centrations of 0.1% or greater.		
4.	FIRST AID MEASUR	ES					
4.1	Description of first ai	d 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	er. Do not induce vomiting unless directed to do	so by medical personnel	lever give anything by mouth to an unconsciou	is person. Consult a doctor		
4.2		toms and effects, both acute and delayed	oo by motion personnel. I	teres give anything by mouth to an unconsciou	o person. Consult a doctor.		
7.4		wledge, the chemical, physical and toxicological	properties have not been t	horoughly investigated			
4.2				norouginy investigated.			
4.3		te medical attention and special treatment nee					
	Show this safety data	sheet to the doctor in attendance. Immediate me	euroal allention is required.				

5.	FIRE-FIGHTING MEASURES					
5.1	Extinguishing Media					
	Suitable extinguishing media					
		t foam, dry chemical or carbon dioxide.				
5.2	Special hazards arising from the					
	In combustion, may emit toxic fun	nes.				
5.3	Precautions for fire-fighters					
	Wear suitable protective clothing	to prevent contact with skin and eyes and self-contain	ned breathing apparatus.			
6.	ACCIDENTIAL RELEASE MEA	SURES				
6.1	Personal precautions, protective	e equipment and emergency procedures				
	Do not take action without suitabl or gas.	e protective clothing - see section 8 of SDS. Evacuate	e personnel to safe areas. Ensur	e adequate ventilation. Avoid breathing vapors, mist, dust		
6.2	Environmental precautions					
	Do not let product enter drains.					
6.3	Methods and materials for conta	inment and cleaning up				
	Cover spillage with suitable abso	rbent material. Hold all material for appropriate dispo	sal 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					
	_	s, skin and clothing. Avoid the formation of dust and a	erosols. Use in a well-ventilated	area. Keep away from sources of ignition. Avoid prolonged		
7.2	Conditions for safe storage, incl	uding any incompatibilities				
	-	. Keep away from direct sunlight. Keep container tight	ly sealed until ready for use.			
7.3	Specific end uses					
	Not applicable.					
8.	EXPOSURE CONTROLS/PERS	SONAL PROTECTION				
8.1	Control parameters					
	Components with workplace co	ntrol parameters				
	Contains no substances with occ	upational exposure limit values.				
8.2	Exposure controls					
	Appropriate Engineering Control	Is				
	Use in a fume hood where applic eye wash station.	able. Ensure all engineering measures described unc	der section 7 of SDS are in plac	e. Ensure laboratory is equipped with a safety shower and		
	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 nece	essary, use a suitable respirator.				
9.	PHYSICAL AND CHEMICAL P	ROPERTIES				
9.1	Information on basic physical a					
	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.		

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	Product is not self igniting.
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.

# 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.

**Oxidizing Properties** 

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

May cause eye burns.

# 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:	May cause eye burns.
Delayed / Immediate Effects:	No known symptoms.

# Additional Information

Classified based on available data

# 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

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:

# 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