

Safety Data Sheet

In accordance with The Model Work Health and Safety Regulations, and the Globally Harmonized System of Classification and Labelling of Chemicals 7th Revised Edition.

Date of Issue: 15/07/2024

Version: 1.0

SECTION 1: PRODUCT IDENTIFIER & IDENTIFIER FOR THE CHEMICAL

Product Identifier

Product Form: Mixture Product Name: RT Enzyme Mix

Product Reference #: 145390

Intended Use of the Product

CE-IVD for U.S. export only

Name, Address, and Telephone of the Responsible Party

Company

Asuragen, Inc. 2150 Woodward St. Suite 100 Austin, TX 78744 USA +1 512-681-5200 USA, Toll-free T: +1 877-777-1874 E-mail: <u>support@asuragen.com</u> Web address: <u>www.asuragen.com</u>

Emergency Telephone Number

Emergency Number : Tel: +1 -512-681-5200 US, Toll-free Tel: 1-877-777-1874

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-AU) Not classified. Label Elements GHS-AU Labelling No labelling applicable

Non-GHS Hazards

No additional information available

Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable

Mixture

Name	Product Identifier	%*	GHS-AU Classification
1,2,3-Propanetriol	(CAS-No.) 56-81-5	50	Not classified.
Water	(CAS-No.) 7732-18-5	48.45	Not classified.
Sodium chloride	(CAS-No.) 7647-14-5	0.58	Acute Tox. 5 (Oral), H303
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3- tetramethylbutyl)phenyl]omegahydroxy-	(CAS-No.) 9002-93-1	0.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
1,3-Propanediol, 2-amino-2- (hydroxymethyl)-	(CAS-No.) 77-86-1	0.30	Skin Corr./Irrit. Not classified Eye Dam./Irrit. Not classified

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2,3-Butanediol, 1,4-dimercapto-, (R*,R*)-	(CAS-No.) 3483-12-3	0.15	Acute Tox. 4 (Oral), H302
			Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
			STOT SE 3, H335
Glycine, N,N'-1,2-ethanediylbis[N-	(CAS-No.) 6381-92-6	0.01	Acute Tox. 4 (Oral), H302
(carboxymethyl)-, disodium salt, dihydrate			Acute Tox. 4 (Dermal), H312
			Acute Tox. 4
			(Inhalation:dust,mist), H332
			Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
			STOT SE 3, H335
			Aquatic Chronic 3, H412

*Percentages are listed in weight-by-weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volumeby-volume percentage (v/v%). Full text of H- and AUH-statements: see section 16.

SECTION 4: FIRST AID MEASURES

Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens. **Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Personal Protection in First Aid and Measures: Use appropriate personal protective equipment (PPE).

Most Important Symptoms and Effects Both Acute and Delayeds

General: Not expected to present a significant hazard under anticipated conditions of normal use.

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: Prolonged exposure may cause skin irritation. Contact with hot liquid may cause thermal burns.

Eye Contact: May cause slight irritation to eyes. Contact with hot liquid may cause thermal burns.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Solutions do not burn. Use extinguishing media appropriate for surrounding fire. **Unsuitable Extinguishing Media:** None known.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Acrid smoke and irritating fumes. Glycerin decomposes to produce corrosive fumes of Acrolein.

Other Information: No additional information available.

HAZCHEM Emergency Action Code (Australia): None

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Reference to Other Sections

Refer to Section 9 for Flammability Properties

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapour, mist, spray). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

Measures in case of dust release: Not applicable.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognise the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Other information: No additional information available.

Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Material may be biologically contaminated with pathogenic organisms during use. Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidisers.

Specific End Use(s)

CE-IVD for U.S. export only

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), and Australia OELs.

1,2,3-Propanetriol (56-81-5)		
Australia OES TWA [1] 10 mg/r		10 mg/m ³ (containing no Asbestos and <1% Crystalline
		silica-inhalable dust, mist)

Exposure Controls

Appropriate Engineering Controls: Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

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Personal Protective Equipment

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles or glasses.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Thermal Hazard Protection: If material is hot, wear thermally resistant protective gloves.

Environmental Exposure Controls: Avoid release to the environment.

Consumer Exposure Controls: Not applicable

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

information on basic Physical and Chemical Properties		
Physical State	:	Liquid
Appearance/Colour	:	No data available
Odour	:	No data available
рН	:	No data available
Melting Point	:	No data available
Freezing Point	:	No data available
Boiling Point	:	No data available
Flash Point	:	No data available
Auto-ignition Temperature	:	No data available
Decomposition Temperature	:	No data available
Flammability	:	Not applicable
Lower Flammable Limit	:	No data available
Upper Flammable Limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20°C	:	No data available
Relative Density	:	No data available
Solubility	:	No data available
Partition Coefficient n-Octanol/Water	:	No data available
Viscosity, Kinematic	:	No data available
Particle Size	:	No data available
Particle Size Distribution	:	No data available
Particle Shape	:	No data available
Particle Size Distribution	:	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions

Hazardous polymerisation will not occur.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

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10.5. Incompatible Materials

Strong acids, strong bases, strong oxidisers.

10.6. Hazardous Decomposition Products

Carbon and nitrogen oxides. Glycerin decomposes upon heating above 290°C, forming corrosive gas acrolein.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Likely routes of exposure: Dermal, Eye Contact, Inhalation, Oral.

Acute Toxicity (Oral): Not classified.

Acute Toxicity (Dermal): Not classified.

Acute Toxicity (Inhalation): Not classified.

LD50 and LC50 Data:

No additional information available

Skin Corrosion/Irritation: Not classified.

Serious Eye Damage/Irritation: Not classified.

Respiratory or Skin Sensitisation: Not classified.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation. Contact with hot liquid may cause thermal burns.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes. Contact with hot liquid may cause thermal burns. **Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Other information: No additional information available.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy- (9002-93-1)	
LD50 Oral Rat	1800 mg/kg (Source: NZ_CCID)

1,3-Propanediol, 2-amino-2-(hydroxymethyl)- (77-86-1)	
LD50 Oral Rat	5900 mg/kg
LD50 Dermal Rat > 5000 mg/kg	

Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate (6381-92-6)	
LD50 Oral Rat	2000 mg/kg
LC50 Inhalation Rat	1500 mg/m³ (4 hour)
ATE AU (dermal)	1,100.00 mg/kg bodyweight

Sodium chloride (7647-14-5)	
LD50 Oral Rat 3550 mg/kg (Species: Wistar)	
LD50 Dermal Rabbit	> 10000 mg/kg (Species: New Zealand White)
LC50 Inhalation Rat> 42 mg/l (Exposure time: 1 h Source: ECHA_API)	

2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)	
ATE AU (oral)	500.00 mg/kg bodyweight

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1,2,3-Propanetriol (56-81-5)	
LD50 Oral Rat	12600 mg/kg (Source: NLM_CIP)
LD50 Dermal Rabbit	> 10 g/kg (Source: NLM_CIP)
LC50 Inhalation Rat	> 2.75 mg/l/4h (No mortalities)
Water (7732-18-5)	

Water (7752-10-5)	
LD50 Oral Rat	> 90 ml/kg (Source: FOOD_JOURN)

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Hazardous To The Aquatic Environment, Short–Term (Acute): Not classified.

Hazardous To The Aquatic Environment, Long-Term (Chronic): Not classified.

Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy- (9002-93-1)				
C50 Fish 1 3 mg/l				
Sodium chloride (7647-14-5)				
LC50 Fish 1	5560 (5560 – 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow- through])			
EC50 - Crustacea [1]	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)			
LC50 Fish 2	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)			
EC50 - Crustacea [2]	340.7 (340.7 – 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])			
NOEC Chronic Fish	252 mg/l (Species: Pimephales promelas)			
1,2,3-Propanetriol (56-81-5)				
LC50 Fish 1	54000 (51000 – 57000) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])			
Persistence and Degradability				
RT Enzyme Mix				
Persistence and Degradability	Contains non readily biodegradable component(s).			
Bioaccumulative Potential				
RT Enzyme Mix				
Bioaccumulative Potential	Bioaccumulation of product components cannot be excluded.			
1,3-Propanediol, 2-amino-2-(hydroxymo	ethyl)- (77-86-1)			
BCF Fish 1	3 (Estimated using a regression-derived equation)			
Sodium chloride (7647-14-5)				
BCF Fish 1	(no bioaccumulation)			
1,2,3-Propanetriol (56-81-5)				
BCF Fish 1	(no bioaccumulation)			
Partition coefficient n-octanol/water	-1.75 (at 25 °C (at pH 7.4)			
(Log Pow)				
<u>Mobility in Soil</u>				
RT Enzyme Mix				
Ecology - Soil	Adsorbs into the soil. Leaches if exposed to water.			
Other Adverse Effects				

Other Adverse Effects

Other Adverse Effects: None known.

Effect On Global Warming: Not classified.

Other Information: Avoid release to the environment.

Ozone: Not classified.

SECTION 13: DISPOSAL CONSIDERATIONS

Regional Legislation (Waste): Disposal must be done according to official regulations.

Waste Treatment Methods: Incineration is the preferred method for disposal of waste product.

Sewage Disposal Recommendations: Do not dispose of waste into sewer. Do not empty into drains.

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Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Biologically contaminated materials should be incinerated.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

According to the UNRTDG and ADG Code

Not regulated for transport

HAZCHEM Emergency Action : None.

Code (Australia)

SECTION 15: REGULATORY INFORMATION

National Regulations

National Regulations	
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy- (9002-93-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)	
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)	
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory	
Listed on KECL/KECI (Korean Existing Chemicals Inventory)	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)	
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	
Listed on NZIoC (New Zealand Inventory of Chemicals)	
Listed on the Japanese ISHL (Industrial Safety and Health Law)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	
Listed on the NCI (Vietnam - National Chemical Inventory)	
Listed on Thailand Existing Chemicals Inventory (DIW)	
1,3-Propanediol, 2-amino-2-(hydroxymethyl)- (77-86-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)	
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)	
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory	
Listed on KECL/KECI (Korean Existing Chemicals Inventory)	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)	
Listed on NZIoC (New Zealand Inventory of Chemicals)	
Listed on the Japanese ISHL (Industrial Safety and Health Law)	
Listed on INSQ (Mexican National Inventory of Chemical Substances)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	
Listed on the NCI (Vietnam - National Chemical Inventory)	
Listed on Thailand Existing Chemicals Inventory (DIW)	
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate (6381-92-6)	
Listed on the Canadian DSL (Domestic Substances List)	
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)	
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)	
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)	
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	
Listed on NZIoC (New Zealand Inventory of Chemicals)	
Listed on INSQ (Mexican National Inventory of Chemical Substances)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	

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Listed on the NCI (Vietnam - National Chemical Inventory) Listed on Thailand Existing Chemicals Inventory (DIW) Sodium chloride (7647-14-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemical Inventory) Listed on Thailand Existing Chemicals Inventory (DIW) 2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3) Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemical Inventory) 1,2,3-Propanetriol (56-81-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemical Inventory)

Listed on Thailand Existing Chemicals Inventory (DIW)

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian DSL (Domestic Substances List)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIOC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemical Inventory)

Listed on Thailand Existing Chemicals Inventory (DIW)

International Agreements

1,2,3-Propanetriol (56-81-5)

This chemical is subject to the International Convention for the Prevention of Pollution from Ships (MARPOL)

Australia National Regulations

RT Enzyme Mix		
Relevant Poisons Schedule number	Unscheduled substance	
1,3-Propanediol, 2-amino-2-(hydroxymethyl)- (77-86-1)		
Relevant Poisons Schedule number	Schedule 4	
Sodium chloride (7647-14-5)		
High Volume Industrial Chemicals List	Present	
1,2,3-Propanetriol (56-81-5)		
High Volume Industrial Chemicals List	Present	
Water (7732-18-5)		
High Volume Industrial Chemicals List	Present	
ECTION 16: ADDITIONAL INFORMATION		

Date of Preparation or Latest : Revision : Data Sources : Data Sources : Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS. Other Information : In accordance with The Model Work Health and Safety Regulations, and the Globally Harmonized System of Classification and Labelling of Chemicals 7th Revised Edition.

GHS Full Text Phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Acute Tox. 5 (Oral)	Acute toxicity (oral), Category 5
Aquatic Acute 2	Hazardous to the aquatic environment – Acute Hazard, Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Dam./Irrit. Not classified	Serious eye damage/eye irritation Not classified
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Corr./Irrit. Not classified	Skin corrosion/irritation Not classified
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H303	May be harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled

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H335	May cause respiratory irritation
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Indication of Changes

No additional information available

Abbreviations and Acronyms

ACGIH – American Conference of Governmental Industrial Hygienists	Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in
ADG – Australian Dangerous Goods (Code)	a two-phase system consisting of two largely immiscible solvents, in this case
AIHA – American Industrial Hygiene Association	octanol and water
ATE - Acute Toxicity Estimate	NOAEL - No-Observed Adverse Effect Level
AU - Australia	NOEC - No-Observed Effect Concentration
BCF - Bioconcentration Factor	NTP – National Toxicology Program
BEI - Biological Exposure Indices (BEI)	OEL - Occupational Exposure Limits
BOD – Biochemical Oxygen Demand	pH – Potential Hydrogen
CAS No Chemical Abstracts Service Number	SADT - Self Accelerating Decomposition Temperature
COD – Chemical Oxygen Demand	SDS - Safety Data Sheet
EC50 - Median Effective Concentration	STEL - Short Term Exposure Limit
ErC50 - EC50 in Terms of Reduction Growth Rate	ThOD – Theoretical Oxygen Demand
EU - European Union	TLM - Median Tolerance Limit
GHS – Globally Harmonized System of Classification and Labeling of Chemicals	TLV - Threshold Limit Value
IARC - International Agency for Research on Cancer	TPQ - Threshold Planning Quantity
LC50 - Median Lethal Concentration	TWA - Time Weighted Average
LD50 - Median Lethal Dose	UN – United Nations
LOAEL - Lowest Observed Adverse Effect Level	UN RTDG – United Nations Recommendations on the Transport of Dangerous
LOEC - Lowest-Observed-Effect Concentration	Goods
Log Koc - Soil Organic Carbon-water Partitioning Coefficient	VOC – Volatile Organic Compounds
Log Kow - Octanol/water Partition Coefficient	WEEL - Workplace Environmental Exposure Levels

Glossary of Data Source Abbreviations

Glossary of Data Source Appreviations	
ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of	FOOD_JOURN: Food Research Journal (1956)
Health and Human Services)	IARC: The International Agency for Research on Cancer
AU_WES: Australia WES	IDLH: National Institute for Occupational Health and Safety Immediately
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)	Dangerous to Life or Health Value Profiles
EC_RAR: European Commission Renewal Assessment Report	IUCLID: International Uniform Chemical Information Database
EC_SCOEL: European Commission Scientific Committee on Occupational	JAPAN_GHS: Japan GHS Basis for Classification Data
Exposure Limits	JP_J-CHECK: Japan J-Check
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals	KR_NIER: South Korea National Institute of Environmental Research
Reports	Evaluations
ECHA_API: European Chemicals Agency API	NICNAS: Australia National Industrial Chemicals Notification and Assessment
ECHA_RAC: ECHA Committee for Risk Assessment	Scheme
EFSA: European Food Safety Authority	NIOSH: National Institute for Occupational Health and Safety (U.S. Department
EPA: U.S. Environmental Protection Agency	of Health and Human Services)
EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection	NLM_CIP: National Library of Medicine ChemID plus database
Agency)	NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank
EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration	NLM_PUBMED: National Library of Medicine PubMed database
Eligibility Decision (U.S. Environmental Protection Agency)	NTP: National Toxicology Program
EPA_HPV: High Production Volume Chemicals (U.S. Environmental Protection	NZ_CCID: New Zealand Chemical Classification and Information Database
Agency)	OECD_EHSP: Environment, Health, and Safety Publication (Organisation for
EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision	Economic Co-operation and Development)
(U.S. Environmental Protection Agency)	OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-
EU_CLH: European Union Harmonised Classification and Labelling Proposal	operation and Development)
EU_RAR: European Union Risk Assessment Report	WHO: World Health Organization

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Australia GHS SDS