

## Safety Data Sheet

acc. to OSHA HCS

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## **1** Identification

- Product identifier
- Trade name: <u>Sodium Phosphate Assay Buffer</u>
- · Synonym
- Article number: 700003
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- Details of the supplier of the safety data sheet
   Manufacturer/Supplier: Cayman Chemical Co.
   1180 E. Ellsworth Rd.
- Ann Arbor, MI 48108 USA
- Information department: Product safety department
   Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

## 2 Hazard(s) identification

- Classification of the substance or mixture The product is not classified, according to the Globally Harmonized System (GHS).
- · Label elements
- · GHS label elements None
- · Hazard pictograms None
- · Signal word None
- · Hazard statements None
- · Classification system:
- NFPA ratings (scale 0 4)



Health = 0 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTHImage: OHealth = 0FIREImage: OFire = 0REACTIVITY Image: OReactivity = 0

- · Other hazards
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.

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#### Trade name: Sodium Phosphate Assay Buffer

• **vPvB:** Not applicable.

### **3 Composition/information on ingredients**

#### · Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

#### · Dangerous components: None

·	Other	ingredients	

• Other ingredients		
CAS: 7732-18-5	Water	97.0%
RTECS: ZC0110000		
CAS: 10049-21-5 RTECS: WA1900000	Sodium phosphate monobasic, monohydrate	3.0%

#### **4 First-aid measures**

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- Use fire fighting measures that suit the environment.
- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- **Environmental precautions:** Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.

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#### Trade name: Sodium Phosphate Assay Buffer

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Protective Action Criteria for Chemicals

· PAC-1:

None of the ingredients is listed.

· PAC-2:

None of the ingredients is listed.

· PAC-3:

None of the ingredients is listed.

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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## Trade name: Sodium Phosphate Assay Buffer

• Eye protection: Goggles recommended during refilling.

9 Physical and chemical prope	rties			
· Information on basic physical and	chemical properties			
· General Information				
· Appearance:				
Form:	Liquid			
Color: · Odor:	According to product specification Odorless			
· Odor threshold:	Not determined.			
Formulation	250 mM sodium phosphate, pH 7.2			
<sup>·</sup> pH-value at 20 °C (68 °F):	7.2			
· Change in condition				
Melting point/Melting range:	0 °C (32 °F)			
Boiling point/Boiling range:	100 °C (212 °F)			
· Flash point:	Not applicable.			
· Flammability (solid, gaseous):	Not applicable.			
· Decomposition temperature:	Not determined.			
· Ignition temperature:       Product is not selfigniting.         · Danger of explosion:       Product does not present an explosion hazard.				
		Explosion limits:		
Lower:	Not determined.			
Upper: · Vapor pressure at 20 °C (68 °F):	Not determined.			
	23 hPa (17.3 mm Hg)			
· Density at 20 °C (68 °F):	1 g/cm³ (8.345 lbs/gal)			
· Relative density · Vapor density	Not determined. Not determined.			
· Evaporation rate	Not determined.			
· Solubility in / Miscibility with				
Water:	Fully miscible.			
· Partition coefficient (n-octanol/wat	er): Not determined.			
· Viscosity:				
Dynamic at 20 °C (68 °F):	0.952 mPas			
Kinematic:	Not determined.			
Solvent content:				
Water:	97.0 % 0.00 %			
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal			
Solids content:	3.0 %			
· Other information	No further relevant information available.			

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### **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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· Other adverse effects No further relevant information available.

### 13 Disposal considerations

· Waste treatment methods

• **Recommendation:** Smaller quantities can be disposed of with household waste.

Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

4 4 1		1
14 Trans	port into	rmation
14 mane		mation

· UN-Number · DOT, IMDG, IATA	not regulated
<ul> <li>UN proper shipping name</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	not regulated
<ul> <li>Packing group</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
<ul> <li>Transport in bulk according to Annex II MARPOL73/78 and the IBC Code</li> </ul>	l of Not applicable.
· UN "Model Regulation":	not regulated

## **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

7732-18-5 Water

### · Hazardous Air Pollutants

None of the ingredients is listed.

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•	Chemicals	known	to	cause	cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### · Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value)

None of the ingredients is listed.

• NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· Department issuing SDS: Environment protection department.

· Contact: -

- · Date of preparation / last revision 04/08/2024 / -
- Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety **OSHA: Occupational Safety & Health** TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** \* \* Data compared to the previous version altered.



Safety Data Sheet

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### **1** Identification

- · Product identifier
- Trade name: <u>NP40 Substitute Assay Reagent (5X)</u>
- · Synonym
- Article number: 700024
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- Details of the supplier of the safety data sheet
   Manufacturer/Supplier: Cayman Chemical Co.
   1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- Information department: Product safety department
   Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

## 2 Hazard(s) identification

#### · Classification of the substance or mixture

- GHS05 Corrosion
- Eye Damage 1 H318 Causes serious eye damage.

GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

GHS07

Acute Toxicity - Oral 4 H302 Harmful if swallowed. Skin Irritation 2 H315 Causes skin irritation.

#### · Label elements

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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Hazard pictogr	rams
	¥7
- マン・	
GHS05 GHS	07 GHS09
· Signal word Da	anger
	ining components of labeling:
Triton X-100	
<ul> <li>Hazard statem</li> </ul>	
H302 Harmful if	
H315 Causes s	
	erious eye damage.
	quatic life with long lasting effects.
· Precautionary	
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection / face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P3	38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lense
D040	present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label). Rinse mouth.
P330	
P362+P364 P332+P313	Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local/regional/national/internation
FJUT	regulations.
· Classification	
· NFPA ratings (	
<u> </u>	
	ealth = 3 re = 0
	e – 0 eactivity = 0
	activity – 0
· HMIS-ratings (	scale 0 - 4)
HEALTH *3 H	ealth = *3
	re = 0
	eactivity = 0
· Other hazards	
· Results of PBT	and vPvB assessment
· PBT: Not applic	
· vPvB: Not appl	icable

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#### Trade name: NP40 Substitute Assay Reagent (5X)

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25.0%

75.0%

### **3 Composition/information on ingredients**

#### · Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous	compone	ents:

CAS: 9002-93-1 Triton X-100 RTECS: MD0907700

#### · Other ingredients

CAS: 7732-18-5 Water

RTECS: ZC0110000

#### 4 First-aid measures

· Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Immediately call a doctor.
- Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **5 Fire-fighting measures**

- · Extinguishing media
- Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters

Use neutralizing agent.

· Protective equipment: No special measures required.

### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
 Environmental precautions:
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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<ul> <li>Dispose contaminated material as waste according to section 13.</li> <li>Reference to other sections</li> <li>See Section 7 for information on safe handling.</li> <li>See Section 8 for information on personal protection equipment.</li> <li>See Section 13 for disposal information.</li> <li>Protective Action Criteria for Chemicals</li> </ul>	(Contd. from page 3)
· PAC-1:	
None of the ingredients is listed.	
· PAC-2:	
None of the ingredients is listed.	
· PAC-3:	

None of the ingredients is listed.

### 7 Handling and storage

#### · Handling:

- Precautions for safe handling
   No special precautions are necessary if used correctly.
   Avoid breathing dust/fume/gas/mist/vapours/spray.
   Avoid prolonged or repeated exposure.
   Keep away from sources of ignition.
   Take precautionary measures against static discharge.re.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the skin. Avoid contact with the eyes and skin.
- Breathing equipment: Not required.

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Trade name: NP40 Substitute Assay Reagent (5X)

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### • Eye protection:



Tightly sealed goggles

Information on basic physical and General Information	chemical properties
Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C (212 °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.

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<sup>.</sup> Density at 20 °C (68 °F):	1 g/cm³ (8.345 lbs/gal)	
· Bulk density:	1,000 kg/m³	
· Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/	water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	75.0 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	
· Other information	No further relevant information ava	ailable.

## 10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:

ATE (Acute Toxicity Estimate)				
Oral LD50 2,000 mg/kg				
9002-93-1 Triton X-100				
Oral	LD50	1,800 mg/kg (rat)		
Irritation of skin	Irritation	500 μl/24h (rabbit) mild		
Irritation of eyes	Irritation	10 μl/24h (rabbit) moderate		
	Intravenous LD50	1,200 mg/kg (mouse)		
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#### Trade name: NP40 Substitute Assay Reagent (5X)

• Primary irritant effect:

· on the skin: Irritant to skin and mucous membranes.

• on the eye: Strong irritant with the danger of severe eye injury.

• Sensitization: No sensitizing effects known.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful Irritant

· Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

- Toxic for aquatic organisms
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### **13 Disposal considerations**

### · Waste treatment methods

• Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

#### · Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

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## Trade name: NP40 Substitute Assay Reagent (5X)

• Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · DOT, IMDG, IATA	UN3082
· UN proper shipping name · DOT · IMDG · IATA	Environmentally hazardous substance, liquid, n.o.s. ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (Triton X-100), MARINE POLLUTAN Environmentally hazardous substance, liquid, n.o (Triton X-100)
· Transport hazard class(es)	
DOT	
· Class	9 Miscellaneous dangerous substances and articles
<sup>.</sup> Label	9
· Class · Label	9 Miscellaneous dangerous substances and articles 9
· Packing group · DOT, IMDG, IATA	
· Environmental hazards: · Marine pollutant: · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
· Special precautions for user	Warning: Miscellaneous dangerous substances an articles
<ul> <li>Hazard identification number (Kemler code</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	): 90 F-A,S-F A
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.
· Transport/Additional information:	
DOT	On passenger aircraft/rail: 450 L

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<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IATA · Remarks:	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRITON X-100), 9, III

## **15 Regulatory information**

## Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. Sara

<ul> <li>Section 355 (extremely hazardous substances):</li> </ul>	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
• TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
<ul> <li>Chemicals known to cause reproductive toxicity for females:</li> </ul>	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
None of the ingredients is listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
	(Contd. on page 10)

Printing date 04/08/2024

#### Revision date 04/08/2024

#### Trade name: NP40 Substitute Assay Reagent (5X)

(Contd. from page 9)

#### • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- Date of preparation / last revision 04/08/2024 / -

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Acute Toxicity - Oral 4: Acute toxicity - Category 4 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Damage 1: Serious eye damage/eye irritation - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 \*\* Data compared to the previous version altered.



Printing date 08/17/2023

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### **1** Identification

- · Product identifier
- · Trade name: Standard Diluent Assay Reagent (5X)
- · Synonym
- Article number: 700732
- · Application of the substance / the mixture

This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

- · Details of the supplier of the safety data sheet
- **Manufacturer/Supplier:** Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Specific Target Organ Toxicity - Repeated Exposure H373 May cause damage to organs through 2 prolonged or repeated exposure.

- · Label elements
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



- · Signal word Warning
- Hazard-determining components of labeling: Sodium chloride

(Contd. on page 2)

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(Contd. from page 1)

### Trade name: Standard Diluent Assay Reagent (5X)

#### · Hazard statements

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

- P314 Get medical advice/attention if you feel unwell.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Classification system:

### NFPA ratings (scale 0 - 4)

## · HMIS-ratings (scale 0 - 4)



#### · Other hazards

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

### **3 Composition/information on ingredients**

#### · Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous compon	ents:	
CAS: 7647-14-5 RTECS: VZ4725000	Sodium chloride	4.25%
Other ingredients		
CAS: 7732-18-5 RTECS: ZC0110000	Water	95.75%

### **4 First-aid measures**

#### Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed

No further relevant information available.

(Contd. on page 3)

Printing date 08/17/2023

Revision date 08/17/2023

#### Trade name: Standard Diluent Assay Reagent (5X)

• **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### **5 Fire-fighting measures**

- Extinguishing media
- · Suitable extinguishing agents:
- Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture
- 67-56-1During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
   Environmental precautions: Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water. • **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- · PAC-1:

None of the ingredients is listed.

· PAC-2:

None of the ingredients is listed.

· PAC-3:

None of the ingredients is listed.

### 7 Handling and storage

- · Handling:
- Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.

(Contd. on page 4)

(Contd. from page 2)

<sup>-</sup> U

Printing date 08/17/2023

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(Contd. from page 3)

#### Trade name: Standard Diluent Assay Reagent (5X)

- · Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Additional information: The lists that were valid during the creation were used as basis.

#### • Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### • Eye protection:



Tightly sealed goggles

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Printing date 08/17/2023

Revision date 08/17/2023

## Trade name: Standard Diluent Assay Reagent (5X)

(Contd. from page 4)

· Information on basic physical and cho	
· General Information	emical properties
· Appearance:	
Form:	Liquid
Color:	According to product specification
· Odor:	Odorless
Odor threshold:	Not determined.
· Formulation	A salt solution
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	100 °C (212 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
<sup>·</sup> Density at 20 °C (68 °F):	1 g/cm³ (8.345 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/water)	: Not determined.
· Viscosity:	
Dynamic at 20 °C (68 °F):	0.952 mPas
Kinematic:	Not determined.
· Solvent content:	
Water:	95.8 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	4.3 %
· Other information	No further relevant information available.

## **10 Stability and reactivity**

· Reactivity No further relevant information available.

(Contd. on page 6)

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Printing date 08/17/2023

Revision date 08/17/2023

(Contd. from page 5)

## Trade name: Standard Diluent Assay Reagent (5X)

- · Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:

· LD/LC50 values	· LD/LC50 values that are relevant for classification:	
7647-14-5 Sodium chloride		
Oral	LDLO	1,000 mg/kg (man)
	TDLO	650 ml/kg (man)
	LD50	4,000 mg/kg (mouse)
		3,000 mg/kg (rat)
	LD50	4 g/kg (mouse)
Inhalative	LC50	320 mg/m³ (mouse)
	TCLO	0.63 mg/m³ (human)
	LCLO	29,300 mg/m³/7h (mouse)
Irritation of skin	Irritation	500 mg/24h (rabbit) mild
Irritation of eyes	Irritation	100 mg/24h (rabbit) moderate
	Intraperitoneal LD50	2,602 mg/kg (mouse)
	Subcutaneous LD50	31.6 mg/kg (rat)
	Intravenous LD50	59.5 mg/kg (rat)
	Data	15 mg/3D (human) mild
	Subcutaneous LD50	3 g/kg (mouse)
• Primary irritant • on the skin: No		•

• on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
--	--

None of the ingredients is listed.

## • NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 7)

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### Trade name: Standard Diluent Assay Reagent (5X)

(Contd. from page 6)

### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

### **13 Disposal considerations**

- · Waste treatment methods
- Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
DOT, IMDG, IATA	not regulated	
UN proper shipping name		
DOT, IMDG, IATA	not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
Class	not regulated	
Packing group		
DOT, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	

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Trade name: Standard Diluent Assay Reagent (5X)

(Contd. from page 7)

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. not regulated

· UN "Model Regulation":

## **15 Regulatory information**

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):
None of the ingredients is listed.
Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
· TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.
· Hazardous Air Pollutants
None of the ingredients is listed.
· Proposition 65
· Chemicals known to cause cancer:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
· Carcinogenic categories
· EPA (Environmental Protection Agency)
None of the ingredients is listed.
· TLV (Threshold Limit Value)
None of the ingredients is listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

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Printing date 08/17/2023

Revision date 08/17/2023

## Trade name: Standard Diluent Assay Reagent (5X)

	(Contd. from page 8)
Department issuing SDS: Environment protection department.	
Contact: -	
Date of preparation / last revision 08/17/2023	
Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) -	- Category 2
* Data compared to the previous version altered.	



## Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2024

Revision date 04/08/2024

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### **1** Identification

- Product identifier
- · Trade name: Triglyceride Standard
- · Synonym
- · Article number: 10010509
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- Details of the supplier of the safety data sheet
   Manufacturer/Supplier: Cayman Chemical Co.
   1180 E. Ellsworth Rd. Ann Arbor, MI 48108
- USA Information de
- Information department: Product safety department
   Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

## 2 Hazard(s) identification

#### · Classification of the substance or mixture



GHS08 Health hazard

Specific Target Organ Toxicity - Repeated Exposure H373 May cause damage to organs through 2 prolonged or repeated exposure.

· Label elements

- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



- · Signal word Warning
- **Hazard-determining components of labeling:** Sodium chloride
- · Hazard statements

H373 May cause damage to organs through prolonged or repeated exposure.

(Contd. on page 2)

US

Printing date 04/08/2024

#### Revision date 04/08/2024

#### Trade name: Triglyceride Standard

#### (Contd. from page 1) · Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapors/spray. P314 Get medical advice/attention if you feel unwell. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: • NFPA ratings (scale 0 - 4) Health = 0Fire = 0Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH Health = 0 FIRE 0 Fire = 0 Reactivity = 0 REACTIVITY 0 · Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

### **3 Composition/information on ingredients**

#### · Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous compone	ents:	
CAS: 7647-14-5 RTECS: VZ4725000	Sodium chloride	1.0%
· Other ingredients		
CAS: 7732-18-5 RTECS: ZC0110000	Water	98.896%
CAS: 56-81-5 RTECS: MA8050000	Glycerol	0.104%

#### 4 First-aid measures

#### · Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 3)

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Printing date 04/08/2024

Revision date 04/08/2024

(Contd. from page 2)

#### Trade name: Triglyceride Standard

• **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### **5** Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:
- Use fire fighting measures that suit the environment.
- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture
- 67-56-1During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.
- Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

· PAC-1:	
56-81-5 Glycerol	45 mg/m³
· PAC-2:	
56-81-5 Glycerol	180 mg/m³
· PAC-3:	
56-81-5 Glycerol	1,100 mg/m³

### 7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage: Store in accordance with information listed on the product insert.
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

(Contd. on page 4)

<sup>-</sup> US

Printing date 04/08/2024

Revision date 04/08/2024

#### Trade name: Triglyceride Standard

(Contd. from page 3)

· Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

#### Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- Personal protective equipment:
- **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately.
- Breathing equipment:
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### • Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- Appearance:
  - Form:

Liquid

(Contd. on page 5)

us

Printing date 04/08/2024

#### Revision date 04/08/2024

## Trade name: Triglyceride Standard

	(Contd. from page 4)
Color:	Colorless
· Odor:	Odorless Not determined
· Odor threshold: · Formulation	Not determined. 1,000 mg/dl solution of triglyceride standard
· pH-value:	Not determined.
•	Not determined.
Change in condition	
Melting point/Melting range: Boiling point/Boiling range:	0 °C (32 °F)
<u> </u>	100 °C (212 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
<sup>·</sup> Density at 20 °C (68 °F):	1 g/cm³ (8.345 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
<ul> <li>Solubility in / Miscibility with</li> </ul>	
Water:	Fully miscible.
· Partition coefficient (n-octanol/water)	Not determined.
· Viscosity:	
Dynamic at 20 °C (68 °F):	0.952 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.1 %
Water:	98.9 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	1.0 %
· Other information	No further relevant information available.

## **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

(Contd. on page 6)

<sup>–</sup> US

Revision date 04/08/2024

(Contd. from page 5)

Trade name: Triglyceride Standard

Printing date 04/08/2024

· Hazardous decomposition products: No dangerous decomposition products known.

1 Toxicologica	l information	
<ul> <li>Information on</li> <li>Acute toxicity:</li> </ul>	toxicological effects	
•	that are relevant for	r classification:
7647-14-5 Sodiı	um chloride	
Oral	LDLO	1,000 mg/kg (man)
	TDLO	650 ml/kg (man)
	LD50	4,000 mg/kg (mouse)
		3,000 mg/kg (rat)
	LD50	4 g/kg (mouse)
Inhalative	LC50	320 mg/m³ (mouse)
	TCLO	0.63 mg/m³ (human)
	LCLO	29,300 mg/m³/7h (mouse)
Irritation of skin	Irritation	500 mg/24h (rabbit) mild
Irritation of eyes	Irritation	100 mg/24h (rabbit) moderate
	Intraperitoneal LD50	2,602 mg/kg (mouse)
	Subcutaneous LD50	31.6 mg/kg (rat)
	Intravenous LD50	59.5 mg/kg (rat)
	Data	15 mg/3D (human) mild
	Subcutaneous LD50	3 g/kg (mouse)
<ul> <li>Additional toxic</li> </ul>	irritant effect. rritating effect. lo sensitizing effects k cological information	
· Carcinogenic ca	ategories	
· IARC (Internatio	onal Agency for Rese	earch on Cancer)
None of the ingre	edients is listed.	
· NTP (National T	oxicology Program)	
None of the ingre	edients is listed.	
· OSHA-Ca (Occı	pational Safety & He	ealth Administration)
None of the ingre		

## **12 Ecological information**

· Toxicity

• Aquatic toxicity: No further relevant information available.

• Persistence and degradability No further relevant information available.

(Contd. on page 7)

US

Printing date 04/08/2024

Revision date 04/08/2024

#### Trade name: Triglyceride Standard

(Contd. from page 6)

- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not hazardous for water.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

## **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

## **14 Transport information**

· UN-Number · DOT, IMDG, IATA	not regulated	
<ul> <li>UN proper shipping name</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA · Class	not regulated	
<ul> <li>Packing group</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> <li>Not applicable.</li> </ul>		
· UN "Model Regulation":	not regulated	

## **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

#### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

(Contd. on page 8)

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Printing date 04/08/2024

Revision date 04/08/2024

Trade name: Triglyceride Standard

	(Contd. from pa
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
Hazardous Air Pollutants	
None of the ingredients is listed.	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value)	
None of the ingredients is listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health	)
None of the ingredients is listed.	
Chemical safety assessment: A Chemical Safety Assessment has a	not been carried out.

## **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 04/08/2024 / -
- Abbreviations and acronyms:
   IMDG: International Maritime Code for Dangerous Goods
   DOT: US Department of Transportation
   IATA: International Air Transport Association
   EINECS: European Inventory of Existing Commercial Chemical Substances
   ELINCS: European List of Notified Chemical Substances
   CAS: Chemical Abstracts Service (division of the American Chemical Society)
   NFPA: National Fire Protection Association (USA)
   HMIS: Hazardous Materials Identification System (USA)
   VOC: Volatile Organic Compounds (USA, EU)
   LC50: Lethal concentration, 50 percent
   LD50: Lethal dose, 50 percent
   PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 9)

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#### Trade name: Triglyceride Standard

(Contd. from page 8)

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2 • \* Data compared to the previous version altered.

us -



## Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2024

Revision date 04/08/2024

## **1** Identification

- Product identifier
- Trade name: Triglyceride Enzyme Mixture (15X)
- · Synonym
- · Article number: 10010511
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- Details of the supplier of the safety data sheet
   Manufacturer/Supplier: Cayman Chemical Co.
   1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- Information department: Product safety department
   Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

## 2 Hazard(s) identification

#### · Classification of the substance or mixture



GHS08 Health hazard

Sensitization - Respiratory 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. GHS05 Corrosion Eye Damage 1 H318 Causes serious eye damage. Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)

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Printing date 04/08/2024

Revision date 04/08/2024

### Trade name: Triglyceride Enzyme Mixture (15X)

· Hazard pictog	(Contd. from page 1)
GHS05 GHS	08
· Signal word D	anger
Triton X-100 Lipase Kinase (phosph Oxidase, glycer Myeloperoxidas Hazard statem H318 Causes s H334 May caus H412 Harmful t	se ents erious eye damage. se allergy or asthma symptoms or breathing difficulties if inhaled. o aquatic life with long lasting effects. statements
P261 P273	Avoid breathing dust/fume/gas/mist/vapors/spray Avoid release to the environment.
P280 P284	Wear eye protection / face protection. [In case of inadequate ventilation] wear respiratory protection.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable
P305+P351+P3 P310 P342+P311 P501	for breathing. 338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If experiencing respiratory symptoms: Call a poison center/doctor. Dispose of contents/container in accordance with local/regional/national/international regulations.
<ul> <li>Classification</li> <li>NFPA ratings</li> </ul>	system:
He Fi	ealth = 3 re = 0 eactivity = 0
· HMIS-ratings (	scale 0 - 4)
HEALTH *3	lealth = *3

· Other hazards

FIRE

· Results of PBT and vPvB assessment

Fire = 0

· **PBT:** Not applicable.

0

REACTIVITY 0 Reactivity = 0

**vPvB:** Not applicable.

## **3** Composition/information on ingredients

· Chemical characterization: Mixtures

· **Description:** Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 3)

<sup>–</sup> ÚS

Printing date 04/08/2024

Revision date 04/08/2024

#### Trade name: Triglyceride Enzyme Mixture (15X)

		(Contd. from page 2
· Dangerous compone	ents:	
CAS: 9002-93-1 RTECS: MD0907700	Triton X-100	4.0%
CAS: 9001-62-1 RTECS: TO9776500	Lipase	2.6%
CAS: 83-07-8 RTECS: CD2480000	4-Aminoantipyrine	1.5%
CAS: 9030-66-4	Kinase (phosphorylating), glycerol	1.3%
CAS: 9046-28-0	Oxidase, glycerol phosphate	0.9%
CAS: 9003-99-0	Myeloperoxidase	0.45%
· Other ingredients		
CAS: 7791-18-6 RTECS: OM2975000	Magnesium chloride, hexahydrate	30.0%
CAS: 82611-88-9	N-Ethyl-N-(3-sulfopropyl)-m-anisidine, sodium salt	24.6%
CAS: 10049-21-5 RTECS: WA1900000	Sodium phosphate monobasic, monohydrate	18.2%
CAS: 987-65-5 RTECS: AU7417000	Adenosine 5'-triphosphate (sodium salt)	16.0%
CAS: 14459-95-1	Potassium Ferrocyanide Trihydrate	0.05%

#### **4 First-aid measures**

· Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### **5 Fire-fighting measures**

- · Extinguishing media
- Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

• **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.

(Contd. on page 4)

<sup>–</sup> ÚS

Printing date 04/08/2024

#### Revision date 04/08/2024

#### Trade name: Triglyceride Enzyme Mixture (15X)

	(Contd. from page 3)
· Environmental precautions:	
Do not allow product to reach sewage system or any water course.	
Inform respective authorities in case of seepage into water course or sewage system.	
Do not allow to enter sewers/ surface or ground water.	
• Methods and material for containment and cleaning up:	
Use neutralizing agent.	
Dispose contaminated material as waste according to section 13.	
Ensure adequate ventilation.	
Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
Protective Action Criteria for Chemicals	
· PAC-1:	
7791-18-6 Magnesium chloride, hexahydrate	34 mg/m <sup>3</sup>
14459-95-1 Potassium Ferrocyanide Trihydrate	16 mg/m <sup>3</sup>
PAC-2:	
7791-18-6 Magnesium chloride, hexahydrate	370 mg/m <sup>3</sup>
14459-95-1 Potassium Ferrocyanide Trihydrate	23 mg/m <sup>3</sup>
PAC-3:	
7791-18-6 Magnesium chloride, hexahydrate	1,600 mg/m <sup>3</sup>
14459-95-1 Potassium Ferrocyanide Trihydrate	140 mg/m³

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Additional information: The lists that were valid during the creation were used as basis.

(Contd. on page 5)

US

Printing date 04/08/2024

Revision date 04/08/2024

#### Trade name: Triglyceride Enzyme Mixture (15X)

(Contd. from page 4)

- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

Information on basic physical and chemical properties

• General Information

· Appearance:		
Form:	Lyophilized powder	
Color:	According to product specification	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
· Flash point:	Not applicable.	
		(Contd. on page 6)

Printing date 04/08/2024

#### Revision date 04/08/2024

#### Trade name: Triglyceride Enzyme Mixture (15X)

	(Contd. from page
· Flammability (solid, gaseous):	Not determined.
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure:	Not applicable.
<ul> <li>Density:</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	Not determined. Not determined. Not applicable. Not applicable.
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Soluble.
· Partition coefficient (n-octanol/wa	ater): Not determined.
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>	Not applicable. Not applicable.
<ul> <li>Solvent content: VOC content:</li> </ul>	0.00 %
Solids content:	69.2 %
· Other information	No further relevant information available.

## **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## **11 Toxicological information**

· Information on toxicological effects

LD50

• Acute toxicity:

Oral

#### · LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

10,127 mg/kg

(Contd. on page 7)

US –

Printing date 04/08/2024

Revision date 04/08/2024

#### Trade name: Triglyceride Enzyme Mixture (15X)

9002-93-1 Tritor		
Oral	LD50	1,800 mg/kg (rat)
Irritation of skin	Irritation	500 μl/24h (rabbit)
		mild
Irritation of eyes	Irritation	10 μl/24h (rabbit)
		moderate
	Intravenous LD50	1,200 mg/kg (mouse)
83-07-8 4-Amino		
Oral	LD50	800 mg/kg (mouse)
		1,700 mg/kg (rat)
	Intraperitoneal LD50	270 mg/kg (mouse)
		1,200 mg/kg (rat)
Sensitization: S	irritant effect. ong irritant with the dar Sensitization possible t	
on the skin: No on the eye: Stro Sensitization: S Additional toxic	irritant effect. ong irritant with the dar Sensitization possible t cological information	hrough inhalation.
on the skin: No on the eye: Stro Sensitization: S Additional toxic The product sho preparations: Harmful Irritant Carcinogenic ca	irritant effect. ong irritant with the dar Sensitization possible t cological information ows the following dar ategories	hrough inhalation. : ngers according to internally approved calculation methods fo
on the skin: No on the eye: Stro Sensitization: S Additional toxic The product sho preparations: Harmful Irritant Carcinogenic ca IARC (Internatio	irritant effect. ong irritant with the dar Sensitization possible t cological information ows the following dar ategories onal Agency for Rese	hrough inhalation. : ngers according to internally approved calculation methods fo
on the skin: No on the eye: Stro Sensitization: S Additional toxic The product sho preparations: Harmful Irritant Carcinogenic ca	irritant effect. ong irritant with the dar Sensitization possible t cological information ows the following dar ategories onal Agency for Rese	hrough inhalation. : ngers according to internally approved calculation methods fo
on the skin: No on the eye: Stro Sensitization: S Additional toxic The product sho preparations: Harmful Irritant Carcinogenic ca IARC (Internatio None of the ingre	irritant effect. ong irritant with the dar Sensitization possible t cological information ows the following dar ategories onal Agency for Rese edients is listed.	hrough inhalation. i: ngers according to internally approved calculation methods for earch on Cancer)
on the skin: No on the eye: Stro Sensitization: S Additional toxic The product sho preparations: Harmful Irritant Carcinogenic ca IARC (Internatio None of the ingre	irritant effect. ong irritant with the dar Sensitization possible t cological information ows the following dar ategories onal Agency for Rese edients is listed.	hrough inhalation. i: ngers according to internally approved calculation methods for earch on Cancer)
on the skin: No on the eye: Stro Sensitization: S Additional toxic The product sho preparations: Harmful Irritant Carcinogenic ca IARC (Internatic None of the ingre	irritant effect. ong irritant with the dar Sensitization possible t cological information ows the following dar ategories onal Agency for Rese edients is listed. Toxicology Program) edients is listed.	hrough inhalation. i: ngers according to internally approved calculation methods for earch on Cancer)

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

- Harmful to aquatic organisms
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.

(Contd. on page 8)

<sup>-</sup> US

Printing date 04/08/2024

Revision date 04/08/2024

#### Trade name: Triglyceride Enzyme Mixture (15X)

· **vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

## **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · DOT, IMDG, IATA	not regulated
· · ·	
· UN proper shipping name	
· DOT, IMDG, IATA	not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA	
Class	not regulated
· Packing group	
· DOT, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex	κ II of
MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	not regulated

## **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

Sara

· Section 355 (extremely hazardous substances):			
None of the ingredients is listed.			
· Section 313 (Specific toxic chemical listings):			
None of the ingredients is listed.			
TSCA (Toxic Substances Control Act):			
987-65-5	Adenosine 5'-triphosphate (sodium salt)	ACTIVE	
9002-93-1	Triton X-100	ACTIVE	
9001-62-1	•	ACTIVE	
	(Contc	d. on page 9)	

(Contd. from page 7)

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#### Trade name: Triglyceride Enzyme Mixture (15X)

	(Conte	d. from page 8)	
83-07-8	4-Aminoantipyrine	ACTIVE	
9030-66-4	Kinase (phosphorylating), glycerol	ACTIVE	
9003-99-0	Myeloperoxidase	ACTIVE	
· Hazardous Air Pollutants			
None of the ingredients is listed.			
· Proposition 65			
· Chemicals known to cause cancer:			
None of the ingredients is listed.			
· Chemicals known to cause reproductive toxicity for females:			
None of the ingredients is listed.			
· Chemicals known to cause reproductive toxicity for males:			
None of the ingredients is listed.			
· Chemicals known to cause developmental toxicity:			
None of the ingredients is listed.			
· Carcinoge	nic categories		
· EPA (Envi	ronmental Protection Agency)		
None of the ingredients is listed.			
· TLV (Threshold Limit Value)			
None of the ingredients is listed.			
• NIOSH-Ca (National Institute for Occupational Safety and Health)			
None of the	e ingredients is listed.		
· Chomical	safety assessment: A Chemical Safety Assessment has not been carried out		

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 04/08/2024 / -
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

US

# Safety Data Sheet acc. to OSHA HCS

Printing date 04/08/2024

Revision date 04/08/2024

## Trade name: Triglyceride Enzyme Mixture (15X)

NIOSI I. National Institute for Occupational Safety	(Contd. from page 9)
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Eye Damage 1: Serious eye damage/eye irritation – Category 1	
Sensitization - Respiratory 1: Respiratory sensitisation – Category 1	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	
* Data compared to the previous version altered.	