# Safety Data Sheet

Revision Date 2021-04-26

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	<b>TakaRa</b>
(181)	IABARA

**Revision Number** 1

	1. Identification	
Product identifier		
Product Name	RNase Inhibitor	
Other means of identification		
Product Code	ST2186	
Synonyms	No information available	
Recommended use of the chemical and restrictions on use		
Identified uses	No information available	
Restrictions on use	No information available	

# Details of the supplier of the safety data sheet

Supplier USA: Takara Bio USA, Inc. 1290 Terra Bella Avenue Mountain View, CA 94043 Phone: 800.662.2566/888.251.6618 Web: www.takarabio.com

### Emergency telephone number

Emergency telephone

In case of emergency, call PERS (Professional Emergency Resource Services) 1-800-633-8253 (US) or 801-629-0667 (international).

# 2. Hazard(s) identification

# **Classification**

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

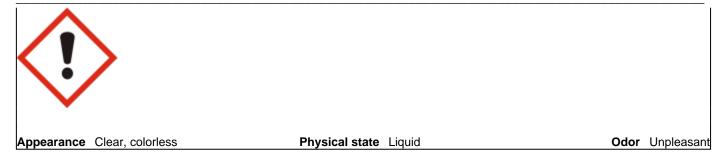
# Hazards not otherwise classified (HNOC)

Not applicable

# Label elements

Warning

Hazard statements Harmful if inhaled



## **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

## **Precautionary Statements - Response**

IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor if you feel unwell

#### Unknown acute toxicity

1.02353 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Other information

No information available.

# 3. Composition/information on ingredients

#### Substance

Not applicable.

### <u>Mixture</u>

Chemical name	CAS No	Weight-%	Trade secret
Glycerol	56-81-5	60 - 70	*

# 4. First-aid measures

#### **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

Symptoms	Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medical	attention and special treatment needed	
Note to physicians	Treat symptomatically.	
5. Fire-fighting measures		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the	
Large Fire	surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	No information available.	
Explosion Data Sensitivity to mechanical impact None.		
Sensitivity to static discharge	None.	
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

# 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Avoid breathing vapors or mists. Use personal protective equipment as required.	
Other information	Refer to protective measures listed in Sections 7 and 8.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	

# 7. Handling and storage

Precautions for safe handling		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.	

# 8. Exposure controls/personal protection

# Control parameters

# Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Glycerol	-	TWA: 15 mg/m <sup>3</sup>	-
56-81-5		TWA: 5 mg/m <sup>3</sup>	
		(vacated) TWA: 10 mg/m <sup>3</sup>	
		(vacated) TWA: 5 mg/m <sup>3</sup>	

# Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	No special protective equipment required.	
Skin and body protection	No special protective equipment required.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Do not eat, drink or smoke when using this product.	

# 9. Physical and chemical properties

Information on basic physical and chemical properties			
Physical state	Liquid		
Appearance	Clear, colorless		
Color	No information available		
Odor	Unpleasant		
Odor Threshold	No information available		
Property_	Values	Remarks • Method	
pH	No data available	None known	
Melting point / freezing point	No data available	None known	
Boiling point/boiling range (°C)	No data available	None known	
Flash point	No data available	Open cup	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air		None known	
Upper flammability limit:	No data available		
Lower flammability limit:	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Relative density	No data available	None known	
Water solubility	No data available	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient	No data available	None known	
Autoignition temperature	392.8 °C / 739 °F	None known	
Decomposition temperature		None known	
Kinematic viscosity	No data available	None known	
Dynamic Viscosity	No data available	None known	

Other information

formation available
formation available

# 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to Avoid	Excessive heat.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

# **11. Toxicological information**

#### Information on likely routes of exposure

#### **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).		
Eye contact	Specific test data for the substance or mixture is not available.		
Skin contact	Specific test data for the substance or mixture is not available.		
Ingestion	Specific test data for the substance or mixture is not available.		
Symptoms related to the physical, chemical and toxicological characteristics			
Symptoms	Coughing and/ or wheezing.		

Acute toxicity

Numerical measures of toxicity

# The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	19,984.10 mg/kg
ATEmix (dermal)	15,876.30 mg/kg
ATEmix (inhalation-dust/mist)	4.3659 mg/l

#### Unknown acute toxicity

1.02353 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol 56-81-5	= 12600 mg/kg(Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L (Rat)4 h

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target organ effects	Kidney, Respiratory system, Eyes, Skin.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

# 12. Ecological information

## Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycerol	-	51 - 57: 96 h	-	-
56-81-5		Oncorhynchus mykiss		
		mL/L LC50 static		

Persistence and degradability

No information available.

**Bioaccumulation** 

There is no data for this product.

# **Component Information**

Chemical name	Partition coefficient
Glycerol	-1.76
56-81-5	

Other adverse effects

No information available.

# 13. Disposal considerations

## Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

14. Transport information

DOT	Not regulated
TDG	Not regulated
<u>MEX</u>	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

# **15. Regulatory information**

#### International Inventories

TSCA	
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\*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL	
EINECS/ELINCS	
ENCS	
IECSC	
KECL	
PICCS	
AICS	

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

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DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## US Federal Regulations

### <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

## ST2186 - RNase Inhibitor

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Glycerol 56-81-5	Х	Х	Х
Water 7732-18-5	-	-	Х

#### U.S. EPA Label Information

#### EPA Pesticide Registration Number Not applicable

16. Other information					
NFPA HMIS	Health hazards 2 Health hazards 2	Flammability Flammability		Instability 0 Physical hazards 0	Special hazards $\ \ -$ Personal protection $\ \ X$
	abbreviations and acronyms (			eet	
•	EXPOSURE CONTROLS/PE			-	
TWA	Time weighted average	-	TEL	Short term exposu	ire limit
Ceiling	Maximum limit value	*		Skin designation	
Agency for Toxic S U.S. Environmenta European Food Sa EPA (Environmenta Acute Exposure Gu U.S. Environmenta U.S. Environmenta Food Research Jou Hazardous Substar International Unifor Japan GHS Classif Australia National I NIOSH (National In National Library of National Toxicology	nce Database m Chemical Information Databa ication ndustrial Chemicals Notification istitute for Occupational Safety Medicine's ChemID Plus (NLM Medicine's PubMed database (I	y (ATSDR) Database ecticide, Fungicio ction Volume Ch ase (IUCLID) and Assessmen and Health) CIP) NLM PUBMED)	de, and Ro emicals t Scheme (		

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision Date	2021-04-26
Revision Note	No information available.

## <u>Disclaimer</u>

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End of Safety Data Sheet