# Safety Data Sheet

Revision Date 2021-02-06



**Revision Number** 7

### 1. Identification Product identifier **Product Name** Standard Other means of identification **Product Code** SD3269 UN3077 **UN number or ID number** Synonyms No information available Recommended use of the chemical and restrictions on use **Identified uses** No information available No information available **Restrictions on use** Details of the supplier of the safety data sheet **Supplier** USA: Takara Bio USA, Inc. 1290 Terra Bella Avenue Mountain View, CA 94043

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**

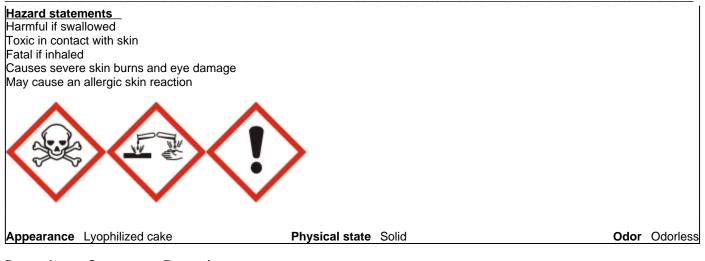
Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

Danger



### Precautionary Statements - Prevention

Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection Wash face, hands and any exposed skin thoroughly after handling Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary Statements - Response**

Specific treatment (see .? on this label) Specific treatment is urgent (see .? on this label) Immediately call a POISON CENTER or doctor Specific treatment (see .? on this label) 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 or doctor Call a POISON CENTER or doctor if you feel unwell IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth Do NOT induce vomiting

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Unknown acute toxicity

- 52.33 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 52.33 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 52.33 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### Other information

Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

### 3. Composition/information on ingredients

### Substance

Not applicable.

Mixture

Chemical name	CAS No	Weight-%	Trade secret
ProClin 300	55965-84-9	5 - 10	*

4. First-aid measures			
Description of first aid measures			
General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.		
Inhalation	Do not breathe dust. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention. Remove to fresh air.		
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.		
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention. May cause an allergic skin reaction.		
Ingestion	Get immediate medical advice/attention. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.		
Self-protection of the first aider	Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing.		
Most important symptoms and effe	cts, both acute and delayed		
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. Itching. Rashes. Hives.		
Indication of any immediate medica	al attention and special treatment needed		
Note to physicians	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitization in susceptible persons. Treat symptomatically.		
	5. Fire-fighting measures		
Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the 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	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition		

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chemical can lead to release of irritating gases and vapors. Product is or contains a sensitization by skin contact.			
Explosion Data Sensitivity to mechanical impac	ct None.		
Sensitivity to static discharge	None.		
Special protective equipment for fire-fightersFirefighters 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	Avoid generation of dust. Do not breathe dust. Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Other information	Refer to protective measures listed in Sections 7 and 8.
Methods and material for containm	ent 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 Do not breathe dust. Avoid generation of dust. Handle product only in closed system or provide appropriate exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Conditions for safe storage, including any incompatibilities Protect from moisture. Store away from other materials. Store locked up. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place.

### 8. Exposure controls/personal protection

### Control parameters

### Appropriate engineering controls

Engineering controls

Showers Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

Eye/face protection	Face protection shield. Tight sealing safety goggles.	
Hand protection	Impervious gloves. Wear suitable gloves.	
Skin and body protection	Long sleeved clothing. Chemical resistant apron. Wear suitable protective clothing.	
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.	
General hygiene considerations	Do not breathe dust. Take off contaminated clothing and wash before reuse. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.	

# 9. Physical and chemical properties

Information on basic physical and	chemical properties	
Physical state	Solid	
Appearance	Lyophilized cake	
Color	No information available	
Odor	Odorless	
Odor Threshold	No information available	
Property	Values	Remarks • Method
рН		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		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	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic Viscosity	no data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular Weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk Density	No information 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. Exposure to air or moisture over prolonged periods.
Incompatible materials	Acids. Bases. Oxidizing agent.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

### Information on likely routes of exposure

### **Product Information**

ProClin 300

Inhalation	fumes/gases may cause con hours. Pulmonary edema r skin, decreased blood pres can lead to a toxic edema	Fatal if inhaled. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. Specific test data for the substance or mixture is not available.				
Eye contact	blindness. Specific test dat	(based on components). Corrosive to the eyes and may cause severe damage including blindness. Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.				
Skin contact	May cause sensitization by allergic reactions with susc	Prolonged skin contact causes burns. Symptoms may be delayed. May cause irritation. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Specific test data for the substance or mixture is not available. Toxic in contact with skin. (based on components).				
Ingestion	cause severe burning pain blood. Blood pressure may mouth. Swelling of the thro damage if swallowed. May	Causes burns. Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Specific test data for the substance or mixture is not available. (based on components).				
Symptoms related to the physi	cal, chemical and toxicological	characteristics				
Symptoms	Difficulty in breathing. Coughing and/ or wheezing. Redness. Burning. May cause blindness. Itching. Rashes. Hives.					
Acute toxicity						
Numerical measures of toxicity	/					
The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)766.10 mg/kgATEmix (dermal)464.70 mg/kgATEmix (inhalation-dust/mist)0.466 mg/l						
52.33 % of the mixture consis	sts of ingredient(s) of unknown ac sts of ingredient(s) of unknown ac sts of ingredient(s) of unknown ac	ute dermal toxicity	)			
Component Information						
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50			

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= 53 mg/kg (Rat)

55965-84-9				
Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Skin corrosion/irritation	Prolonged skin contact causes burns.			
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.			
Respiratory or skin sensitization	May cause sensitization by skin contact.			
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.			
Aspiration hazard	No information available.			
Other adverse effects	No information available.			
Interactive effects	No information available.			

# 12. Ecological information

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
ProClin 300 55965-84-9	0.03 - 0.13: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.11 - 0.16: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	1.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	-	0.12 - 0.3: 48 h Daphnia magna mg/L EC50 Flow through 0.71 - 0.99: 48 h Daphnia magna mg/L EC50 Static 4.71: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

There is no data for this product.

### **Component Information**

Chemical name	Partition coefficient
ProClin 300	0.75
55965-84-9	

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 UN number or ID number Proper shipping name Transport hazard class(es) Packing group Reportable Quantity (RQ) Special Provisions DOT Marine Pollutant Marine pollutant Description Emergency Response Guide Number	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III (Phosphoric acid, disodium salt, dodecahydrate: RQ (kg)= 2270.00) 146, 335, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33, 8 NP ProClin 300 UN3077, Environmentally hazardous substance, solid, n.o.s. (ProClin 300), 9, III, Marine Pollutant 171
<u>TDG</u> UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Special Provisions Marine pollutant Description	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III 16, 99 ProClin 300. UN3077, Environmentally hazardous substance, solid, n.o.s. (ProClin 300), 9, III
<u>MEX</u> UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Technical Name Description Special Provisions	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III { TCODE="TNX"} : { COMP="'55965-84-9','MC02167'"} UN3077, Environmentally hazardous substance, solid, n.o.s. (ProClin 300), 9, III 274, 331, 335
ICAO (air) UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Description Special Provisions	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III UN3077, Environmentally hazardous substance, solid, n.o.s. (ProClin 300), 9, III A158, A97, A179, A197
IATA UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Technical Name	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III ProClin 300

Description Special Provisions ERG Code	UN3077, Environmentally hazardous substance, solid, n.o.s. (ProClin 300), 9, III A158, A179, A97, A197 9L
IMDG UN number or ID number UN proper shipping name Transport hazard class(es) Packing group EmS-No Special Provisions Marine pollutant Marine Pollutant Description	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III F-A, S-F 274, 335, 966, 967, 969 P ProClin 300 UN3077, Environmentally hazardous substance, solid, n.o.s. (ProClin 300), 9, III, Marine Pollutant
<u>RID</u> UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Classification code Special Provisions Description	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III M7 274, 335, 375, 601 UN3077, Environmentally hazardous substance, solid, n.o.s. (ProClin 300), 9, III
ADR UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Classification code Tunnel restriction code Special Provisions Description	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III M7 (-) 274, 335, 601, 375 UN3077, Environmentally hazardous substance, solid, n.o.s. (ProClin 300), 9, III, (-)
ADN UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Classification code Special Provisions Description Equipment Requirements	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III M7 274, 335, 375, 601 UN3077, Environmentally hazardous substance, solid, n.o.s. (ProClin 300), 9, III A, PP

# **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:

### SD3269 - Standard

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

**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

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

This product does not contain any substances regulated under applicable state right-to-know regulations

### U.S. EPA Label Information

### EPA Pesticide Registration Number Not applicable

16. Other information						
NFPA HMIS	Health hazards 4 Health hazards 4	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Special hazards $\ \cdot$ Personal protection $\ X$		
	I to abbreviations and acronyms ion 8: EXPOSURE CONTROLS/F					
TWA	Time weighted average	STEL	Short term exposite	ure limit		
Ceiling	Maximum limit value	*	Skin designation			
Key literature	references and sources for dat	a used to compile the SD	)S			
Agency for To:	xic Substances and Disease Regis	stry (ATSDR)				
U.S. Environm	ental Protection Agency ChemVie	w Database				
European Foo	d Safety Authority (EFSA)					
EPA (Environr	nental Protection Agency)					

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) 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	2021-02-06
Revision Note	No information available.

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### Notice to Purchaser:

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End of Safety Data Sheet