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Safety Data Sheet

【1】 PRODUCT AND COMPANY INFORMATION

Product name Reagent A (10X Concentrate)

Manufacturer's name Morinaga Institute of Biological Science, Inc.
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 SDS No. GHS-SR-11

【2】 HAZARDS IDENTIFICATION

Human health hazard

Serious eye damage ▪ Eye : Category 2B
 irritation

Specific target organ :
 systemic toxicity : Category 3
 (single exposure)

Specific target organ :
 systemic toxicity (repeated : Category 2

Environmental hazard

Hazardous to the aquatic :
 environment (acute : Category 3

Pictogram or symbol



Signal word : danger

Hazard statement : Causes serious eyes irritation.
 May cause respiratory irritation
 May cause damage to organs(kidney) through prolonged or repeated exposure.
 Harmful to an aquatic life.

Cautions

Safety measures : Wear appropriate protective gloves, glasses, clothing, face shield, or mask.

: Wash protective equipment thoroughly after use.

First-aid measures : If in eyes: Rinse cautiously with water for several minutes.

Get medical treatment

: If on skins: Remove contaminated clothing and the substance.

Rinse cautiously with water. Immediately get medical treatment.

Rinse cautiously with water. Immediately get medical treatment.

【3】 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture	: Substance
Chemical name or commercial name	: Sodium n-dodecyl sulfate
Synonyms	: Sodium lauryl sulfate
Ingredients and composition	: Sodium lauryl sulfate, water solution. The content is not disclosed
Formula	: $\text{CH}_3(\text{CH}_2)_{10}\text{CH}_2\text{OSO}_3\text{Na}$
CAS-No.	: 151-21-3
TSCA Inventory	: Registered
EINECS	: 2057881

【4】 FIRST AID MEASURES

Inhalation	: Remove the victim to fresh air. Blow nose and gargle
Skin contact	: Wash the affected areas under running water.
Eye contact	: Wash the affected areas under running water.
Ingestion	: Give the victim one or two glasses of water or saline and induce vomiting. Get medical treatment.

【5】 FIRE-FIGHTING MEASURES

Extinguishing media	: This product is noncombustible.
Prohibited extinguishing media	: None
Particular fire fighting	: Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.
Protection for firefighters	: Firefighters should wear protective equipment.

【6】 ACCIDENTAL RELEASE MEASURES

Cautions for personnel	: Wear proper equipment and avoid contact with skin and inhalation of vapor.
Cautions for environmental	: Attention should be given not to cause damage to the environment by flowing of spillage to rivers. : In case of the dilution of copious water, do not cause damage to the environment by untreated wastewater.
Removal measures	: Absorb spill with paper or cloth. : Wash thoroughly with water

【7】 HANDLING AND STORAGE

Handling	
Engineering measures	: Wear proper protective equipment not to contact with skin or inhale the vapor. : Handle not to generate aerosol or vapor.
Cautions for safety handling	: Use with an enclosed system or a local exhaust ventilation.
Storage	
Adequate storage condition	: Store in a dark, cool place and tightly closed.
Safety adequate container materials	: Glass, polyethylene, polypropylene

【8】 EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering measures	: Use only with adequate ventilation and in closed systems.
Control parameters	
ACGIH(2009)	: Not applicable
Protective equipment	
Respiration protective equipment	: Not necessary
Hands protective equipment	: Impervious protective gloves
Eyes protective equipment	: Safety goggles

【9】 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Color	: Colorless
Odor	: Odorless
pH	: 7.0-9.0
Boiling point	: Not Available
Melting point	: Not Available
Flash point	: Noncombustible
Specific gravity	: Approx. 1.0 g/mL
Solubility	: Water: Freely soluble

【10】 STABILITY AND REACTIVITY

Stability	: Stable under normal usage
Reactivity	: May react with strong oxidizing substances.
Incompatible conditions	: Light, heat
Incompatible materials	: Oxidizing substances
Hazardous decomposition products	: Toxic fumes of sulfur oxides (Sox), carbon monoxide

【11】 TOXICOLOGICAL INFORMATION

Acute toxicity, Oral	: Out of category
Acute toxicity, Dermal	: Out of category
Inhalation (gas)	: Not possible to classify because of insufficient data
Inhalation (dust, mist)	: Not possible to classify because of insufficient data
	: If swallowed, may cause nausea, vomiting, abdominal pain.
	Rat oral LD50=1290mg/kg (as sodium lauryl sulfate)
	Rat intraperitoneal LD50=210mg/kg (as sodium lauryl sulfate)
Skin corrosiveness	: Out of category
Irritation to skin, eyes	: Causes serious eyes irritation.(Category 2B)
	Since cause moderate irritation to the eyes of rabbit, it was classified into category 2B.
Respiratory sensitization or skin sensitization	
Respiratory sensitization	: Not possible to classify because of insufficient data
Skin sensitization	: Not possible to classify because of insufficient data
Mutagenicity	: Out of category
Carcinogenic effects	: Not possible to classify because of insufficient data
Effects on the reproductive system	: Not possible to classify because of insufficient data
Specific target organ systemic toxicity(Single exposure)	: Causes stimulation to respiratory organs.(Category 3)

Based on descriptions that respiratory tract irritation is seen by aerosol exposure in mouse, a rabbit, and agonies pig and that respiratory tract irritation is seen by short terms exposure, it was classified into category 3.

Specific target organ systemic toxicity(repeated exposure)

: May cause damage to organs(kidney) through prolonged ore repeated exposure(category 2)

It is written that there were vacuolar degeneration of kidney tubular epithelial cells, and atrophic of kidney glomerulus. Since these symptoms were found within the scope of the guidance value of Category2, it was classified into category 2(kidney).

Aspiration hazard

: Not possible to classify because of insufficient data.

【12】 ECOLOGICAL INFORMATION

Ecotoxicity

Fish toxicity

Acute aquatic toxicity : Category3 American Lobster LC50=0.72mg/L/96H

Chronic aquatic toxicity : Not possible to classify because of insufficient data

【13】 DISPOSAL CONSIDERATIONS

Residual disposal

: Dilute with copious water and adjust the pH of the solution. After that, flush in drains.

Containers

: Or entrust approved waste disposal companies with the disposal.
: In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

【14】 TRANSPORT INFORMATION

UN class

: Not applicable

UN-Number:

: Not applicable

【15】 REGULATORY INFORMATION

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

【16】 OTHER INFORMATION

References

: Encyclopedia Chemical, Kyoritsu Shuppan Co., Ltd.

The information contained herein is based on several references and the present state of our knowledge. However, the SDS does not always cover all information about the product, handle the product carefully. The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements. The information herein is only provision of information , and it does not represent a guarantee the properties of the product