

Prepared date: 7 Feburary 2017

Revised date:

Safety Data Sheet

[1] PRODUCT AND COMPANY INFORMATION

Product name Reagent B (10X Concentrate)

Manufacturer's name Morinaga Institute of Biological Science, Inc.

Address 2-1-16 Sachiura, Kanazawa-ku Yokohama 236-0003 Japan

Section Quality assurance department

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[2] HAZARDS IDENTIFICATION

Human health hazard

Serious eye damage •

Eye irritation Pictogram or symbol

: Category 2B



Signal word : Warning

Hazard statement : Causes serious eyes irritation.

Cautions

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

Get medical treatment

Wash hands throughly after handling.

[3] COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture : Substance

Chemical name or commercial name

: Sodium sulfite, water

Ingredients and composition : Sodium sulfite, water solution. The content is not disclosed

Formula : Na2SO3 CAS-No. : 7757-83-7 TSCA Inventory : Registered EINECS : 2318214

[4] FIRST AID MEASURES

Inhalation : Remove the victim to fresh air. Blow nose and gargle
Skin contact : Wash the affected areas under runnning water.
Eye contact : Wash the affected areas under runnning 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

enviroment 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

Adequiate storage conditon: 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

Protecrive equipment

Respiration protective equipment

: Not necesarry

Hands protective equipment: Impervious protective gloves

Eyes protective equipment : Safety goggles

[9] PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid Colour : Colourless Odor : Odorless pΗ : 9.0-11.0 **Boiling point** : Not Available Melting point : Not Available Flash point : Noncombustible Specific gravity : Approx. 1.1 g/mL Solubility : Water: Freely soluble

[10] STABILITY AND REACTIVITY

Stability : Stable under normal usage Reactivity : oxidized gradually in air

Incompatible conditions : Light, heat

Incompatible materials : Oxidizing substances

Hazardous decomposition products

: Sulfur oxides

[11] TOXICOLOGICAL INFORMATION

Acute toxicity, Oral Out of category

Acute toxicity, Dermal Not possible to classify because of insufficient data Inhalation (gas) : Not possible to classify because of insufficient data Inhalateion (dust, mist) : Not possible to classify because of insufficient data

(as Sodium sulfite)

Rat oral LD50=3560mg/kg

Skin corrosiveness : Out of category

Irritation to skin, eyes : Causes serious eyes irritation.(Category 2B)

Since cause moderate irritaiton 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

Mutagenecity : 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)

Not possible to classify because of insufficient data Sulfite salt is oxidized and is converted to sulfate ion inside bodies, but digestive organs are irritated because of isolated sulfite ion. If human swallowed 4g of the substance, they habe poisoning digestive organs. However, it is not possible to clasify

because of insufficient date

Specific target organ systemic toxicity(repeated exposure)

: Not possible to classify because of insufficient data

Aspiration hazard : Not possible to classify because of insufficient data

[12] ECOLOGICAL INFORMATION

Ecotoxicity
Fish toxicity

Acute aquatic toxicity : Not possible to classify because of insufficient data 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 frush in drains.

: Or entrust approved waste disposal companies with the disposal

Containers : 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 : Encyclopaedia Chemica, 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