

Safety Datasheet

Reviewed on: 17 Mayl 2021

1. Product and company identification

Product Name: Human Tyrosinase Inhibitor Screening Kit (Monophenolase activity)

Other means of identification: Catalog Number: SL-7030

Components: Assay buffer

Enzyme Substrate buffer

Substrate (L-Tyrosine) (contains NaOH)

Enhancer (contains DMSO and MBTH)

Inhibitor control 96 well microplate

GHS product identifier: Human Tyrosinase Inhibitor Screening Kit (Monophenolase activity)

Application of the substance / the preparation: For Research Use Only

Manufacturer / Supplier:

Sakulab Science, Inc.,

202, 38-34-2, Maruyamadai, Konan-ku, Yokohama city, 233-0013, Japan

Phone: +81-45-353-7244 E-Mail: info@sakulab-sci.co.jp URL: https://sakulab-sci.co.jp/

Dimethyl Sulfoxide

2.Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Rapidly absorbed through skin.

3.Composition/information on ingredients

3.1 Substances

Single substance or Mixture : Mixture

Synonyms : DMSO (Methyl sulfoxide)

Formula : C_2H_6OS Molecular weight : 78,13 g/mol CAS-No. : 67-68-5 EC-No. : 200-664-3 Content : 97.7%

No components need to be disclosed according to the applicable regulations.

4.First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Sulphur oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6.Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet—brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8.Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid, clear Colour: colourless
b) Odour No data available c) Odour Threshold No data available

d) pH No data available
e) Melting Melting point/range: 16 - 19 °C - lit.

point/freezing point

f) Initial boiling point 189 °C - lit. and boiling range

g) Flash point 87 °C - closed cup h) Evaporation rate No data available i) Flammability (solid, gas) No data available

j) Upper/lower Upper explosion limit: 42 %(V) flammability or Lower explosion limit: 3,5 %(V)

explosive limits
k) Vapour pressure
0,55 hPa at 20 °
l) Vapour density
2,70 - (Air = 1.0)
m) Relative density
1,1 g/cm3

n) Water solubility completely miscible
o) Partition coefficient: log Pow: -2,03
n-octanol/water

p) Auto-ignition No data available

temperature
q) Decomposition
temperature

No data available

r) Viscosity
s) Explosive properties
t) Oxidizing properties
No data available
No data available

9.2 Other safety information

Relative vapour 2,70 - (Air = 1.0)

density

10.Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Exposure to moisture

Heat, flames and sparks.

10.5 Incompatible materials

Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides Other decomposition products - No data available In the event of fire: see section 5

11.Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 14.500 mg/kg

LC50 Inhalation - Rat - 4 h - 40250 ppm

LD50 Dermal - Rabbit - > 5.000 mg/kg

Skin corrosion/irritation

Mild skin irritation

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Mouse

lymphocyte

Cytogenetic analysis

Mouse

lymphocyte

Mutation in mammalian somatic cells.

Rat

Cytogenetic analysis

Mouse

DNA damage

<u>Carcinogenicity</u>

No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: PV6210000

Exposure to large amounts can cause:, redness of skin, Itching, burning, sedation, Headache,

Nausea, Dizziness

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

12.1 Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 34.000 mg/l - 96 h

LC50 - Oncorhynchus mykiss (rainbow trout) - 35.000 mg/l - 96 h

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 24.600 mg/l - 48 h

and other aquatic

(OECD Test Guideline 202)

invertebrates

EC50 - Pseudokirchneriella subcapitata (green algae) - 17.000 mg/l Toxicity to algae

- 72 h (OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability Result: 31 % - According to the results of tests of biodegradability this

product is not readily biodegradable.

(OECD Test Guideline 301D)

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Other adverse effects

No data available

- 0,12 - 1,2 h at 30 °C Stability in water

Remarks: Hydrolyses readily.

13.Disposal considerations

13.1 Waste treatment methods

Product
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14.Transport information

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

14.3 Transport hazard class(es)

IMDG: -ADR/RID: -IATA: -

14.4 Packaging group

ADR/RID: -IMDG: -IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

15.Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. : Neither banned nor restricted

International Chemical Weapons Convention

(CWC) Schedules of Toxic Chemicals and

Precursors

Restrictions on the marketing and use of certain

dangerous substances and preparations Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the

export and import of dangerous chemicals REACH - Candidate List of Substances of Very

High Concern for Authorisation (Article 59).

: Neither banned nor restricted

: Neither banned nor restricted

: This product does not contain

substances of very high concern

5 / 18

Safety Datasheet (SL-7030)

SakuLab Science, Inc.

(Regulation (EC) No 1907/2006 (REACH), Article 57).

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

16. Other information

Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SakuLab Science, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.

Sodium hydroxide

2. Hazards identification

2.1 GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

2.2 GHS Label elements, including precautionary statements

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

2.3 Other hazards - none

3. Composition/information on ingredients

3.1 Substances

Single substance or Mixture : Mixture

Synonyms : Sodium hydroxide

Formula : NaOH

 Molecular weight
 :
 39.99714 g/mol

 CAS-No.
 :
 1310-73-2

 EC-No.
 :
 215-185-5

 Content
 :
 0.4%

No components need to be disclosed according to the applicable regulations.

4. First aid measures

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

7 / 18

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling

No data available

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

No data available

8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid, clear Colour: colourless b) Odour No data available c) Odour Threshold No data available d) pH No data available e) Melting point/freezing No data available point f) Initial boiling point and No data available boiling range g) Flash point No data available h) Evaporation rate No data available

8 / 18

i) Flammability (solid, gas) No data available j) Upper/lower No data available

flammability or explosive limits

k) Vapour pressure
No data available
No data available
No data available
1.000 g/cm3
No data available
O) Partition coefficient: n-

octanol/water

temperature

q) Decomposition No data available temperature

r) Viscosity No data available

10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Sodium oxides Other decomposition products - No data available

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

<u>Carcinogenicity</u>

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available Aspiration hazard

No data available

Potential health effects

<u>Inhalation</u> May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin

irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information RTECS: Not available

12. Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. Transport information

14.1 UN number

ADR/RID: 1824 IATA-DGR: 1824 IMDG: 1824

14.2 UN proper shipping name

ADR/RID: SODIUM HYDROXIDE SOLUTION IMDG: SODIUM HYDROXIDE SOLUTION IATA-DGR: Sodium hydroxide solution

14.3 Transport hazard class(es)

IMDG: 8 ADR/RID: 8 IATA-DGR: 8

14.4 Packaging group

ADR/RID: III IMDG: III IATA-DGR: III

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA-DGR: no

14.6 Special precautions for user

No data available

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

Not applicable to dangerous materials. Fire Service Law:

Not applicable Poisonous and

Deleterious Substances

Control Law:

Industrial Safety and Health Law

Ordinance on Not applicable

Prevention of Hazards Due to Specified Chemical

Substances:

Ordinance on Not applicable

Prevention of

Organic Solvent

10 / 18

Safety Datasheet (SL-7030)

SakuLab Science, Inc.

Poisoning:

Harmful Substances
Required Permission
for Manufacture:

Not applicable

Substances Subject to be Notified Names:

Not applicable

<u>Substances Subject t</u>
<u>o be Indicated</u>
Names:

Not applicable

Circular concerning

Information on
Chemicals having
Mutagenicity - Annex
2: Information on
Existing Chemicals
having Mutagenicity:

Not applicable

Circular concerning
Information on
Chemicals having
Mutagenicity - Annex
1: Information on
Notified Substances

Not applicable

Harmful Substances
Prohibited from
Manufacture:

having Mutagenicity:

Not applicable

Substances Prevented From

Not applicable

Impairment of Health:
Ordinance on

Not applicable

Prevention of Lead Poisoning:

Ordinance on Prevention of Tetra alkyl Lead Poisoning: Not applicable

Enforcement Order of the Industrial Safety and Health Law -Attached table 1 (Dangerous Substances): Not applicable

Act on Confirmation, etc. of Release
Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management
Thereof:

Not applicable

<u>Chemical Substance</u> Chemical Not applicable for Specified Chemical Substance, Monitoring

Control Law:

Substance and Priority Assessment Chemical Substance.

16. Other information

Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SakuLab Science, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.

3-Methyl-2-benzothiazoline hydrazone hydrochloride hydrate

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 3), H301 Eye irritation (Category 2), H319

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word Danger

Hazard statement(s)

H301 Toxic if swallowed.

H319 Causes serious eye irritation.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P280 Wear eye protection/ face protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention. Supplemental Hazard none

Supplemental Hazard Statements none

Reduced Labeling (<= 125 ml)

Pictogram (** 123 mi)

Signal word Hazard statement(s)

nazaru statement(s)

H301

Precautionary statement(s)

P264 Wash skin thoroughly after handling.

Danger

P270 Do not eat, drink or smoke when using this product.

Toxic if swallowed.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Supplemental Hazard none

Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

3.1 Substances

Single substance or Mixture : Mixture

 Synonyms
 : MBTH

 Formula
 : C8H9N3S·HCI·xH2O

 Molecular weight
 : 215.70 g/mol

 CAS-No.
 : 149022-15-1

 EC-No.
 : 238-428-7

 Content
 : 2.3%

No components need to be disclosed according to the applicable regulations.

4. First aid measures

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Hydrogen chloride gas

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

protective clothing

Respiratory protection

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143. DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P3

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: crystalline, powder Color: white, off-white b) Odor No data available c) Odor Threshold No data available Ha (b No data available Melting point/range: 276 - 278 °C - dec. e) Melting

point/freezing point

f) Initial boiling point No data available

and boiling range

g) Flash point No data available h) Evaporation rate No data available i) Flammability (solid, No data available

gas)

j) Upper/lower No data available flammability or

explosive limits

k) Vapor pressure No data available I) Vapor density No data available m) Relative density No data available n) Water solubility No data available 15 / 18

Safety Datasheet (SL-7030)

SakuLab Science, Inc.

o) Partition coefficient:

n-octanol/water

p) Autoignition No data available

temperature

q) Decomposition No data available

temperature r) Viscosity

Viscosity, kinematic: No data available Viscosity, dynamic: No data available

s) Explosive properties t) Oxidizing properties

No data available No data available

No data available

9.2 Other safety information

No data available

10. Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature)

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

In the event of fire: see setion 5

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 149 mg/kg Remarks: (External MSDS)

LD50 Dermal - Rabbit - 12.300 mg/kg

Remarks: (External MSDS) Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Causes serious eye irritation.

Remarks: (External MSDS) Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

13. Disposal considerations

13.1 Waste treatment methods

Product
See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14. Transport information

14.1 UN number

ADR/RID: 2811 IMDG: 2811 IATA: 2811

14.2 UN proper shipping name

ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (3-Methylbenzothiazol-2(3H)-one hydrazone

hydrochloride) IMDG: TOXIC SOLID, ORGANIC, N.O.S. (3-Methylbenzothiazol-2(3H)-one hydrazone hydrochloride) IATA: Toxic solid, organic, n.o.s. (3-Methylbenzothiazol-

2(3H)-one hydrazone hydrochloride)

14.3 Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. H2 ACUTE TOXIC

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. Other information

Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SakuLab Science, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.