

Safety Datasheet

Reviewed on: 17 May 2021

1.Product and company identification

Product Name: Mouse Tyrosinase Inhibitor Screening Kit (Diphenolase activity) Other means of identification: Catalog Number: SL-7021 Components: Assay buffer Enzyme Substrate (L- DOPA) (contains HCI, DMSO and MBTH) Inhibitor control 96 well microplate GHS product identifier: Mouse Tyrosinase Inhibitor Screening Kit (Diphenolase 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/

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 ₂ H ₆ OS
Molecular weight	:	78,13 g/mol
CAS-No.	:	67-68-5
EC-No.	:	200-664-3
Content	:	48.85%
No components need to be d	lisclosed	d according to the applicable regulations

sed 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 wetbrushing 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. <u>Personal protective equipment</u> 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

<u>9</u> .	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	Melting point/range: 16 - 19 °C - lit.	
point/freezing point		
f) Initial boiling point and boiling range	189 °C - lit.	
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 explosive limits	Lower explosion limit: 3,5 %(V)	
k) Vapour pressure	0,55 hPa at 20 °	
I) 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 temperature	No data available	
q) Decomposition temperature	No data available	
r) Viscosity	No data available	
s) Explosive properties	No data available	
t) Oxidizing properties	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

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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 Carcinogenicity 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

<u>12.1 Toxicity</u> 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 and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 24.600 mg/l - 48 h (OECD Test Guideline 202)
	Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 17.000 mg/l - 72 h (OECD Test Guideline 201)
12.2 Pers	istence and degradat	bility
	Biodegradability	Result: 31 % - According to the results of tests of biodegradability this product is not readily biodegradable.
		(OECD Test Guideline 301D)
<u>12.3 Bioa</u>	ccumulative potential	_
	No data available	
12.4 Mob	ility in soil	
	No data available	
12.5 Resu	ults of PBT and vPvB	assessment
	This substance/mixt	ure contains no components considered to be either persistent,
	bioaccumulative and	I toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of
	0.1% or higher.	
12.6 Othe	er adverse effects	
	No data available	
	Stability in water	- 0,12 - 1,2 h at 30 °C
	-	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. <u>Contaminated packaging</u> Dispose of as unused product.

14.Transport information

14.1 UN number				
ADR/RID: - IMDG: - IATA: - 14.2 UN proper shipping name				
	gerous goods			
IATA: Not dan 14.3 Transport hazard class(gerous goods es <u>)</u>			
ADR/RID: - 14.4 Packaging group	IMDG: -	IATA: -		
ADR/RID: -	IMDG: -	IATA: -		
<u>14.5 Environmental hazards</u> ADR/RID: no	IMDG Marine pollutant: no	IATA: no		
14.6 Special precautions for 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 requireme			
International Chemical Weapons Convention	: Neither banned nor restricted		
(CWC) Schedules of Toxic Chemicals and			
Precursors			
Restrictions on the marketing and use of certain	: Neither banned nor restricted		
dangerous substances and preparations			
Regulation (EC) No 649/2012 of the European	: Neither banned nor restricted		
Parliament and the Council concerning the			
export and import of dangerous chemicals			
REACH - Candidate List of Substances of Very	: This product does not contain		
High Concern for Authorisation (Article 59).	substances of very high concern		
	(Regulation (EC) No		
	(Regulation (EG) No		
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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.

Hydrogen chloride

2. Hazards identification

2.1 Classification of the substance or mixture <u>Classification according to Regulation (EC) No 1272/2008</u> Corrosive to metals (Category 1), H290

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram

Signal word Hazard statement(s) H290 Precautionary statement(s) Supplemental Hazard Statements <u>2.3 Other hazards</u> This substance/n

Warning

May be corrosive to metals. none

none

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		: Hydrogen chloride solution
Formula	:	HCI
Molecular weight	:	36.46 g/mol
CAS-No.	:	7647-01-0
EC-No.	:	231-595-7
Content	:	0.18%
No components need to be di	sclosed ac	cording 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

 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

<u>4.3 Indication of any immediate medical attention and special treatment needed</u> 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

Nature of decomposition products not known.

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

Wear respiratory protection. Avoid breathing vapours, mist or gas.

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

Soak up with inert absorbent material and dispose of as hazardous waste. 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.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Recommended storage temperature 15 - 25 °C

Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials

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

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

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

Complete suit protecting against chemicals, 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 full-face 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).

<u>Control of environmental exposure</u> Do not let product enter drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: liquid
	Colour: colourless
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	Not applicable
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower	No data available
flammability or explosive limits	
k) Vapour pressure	No data available
I) Vapour density	No data available
m) Relative density	1,00 g/cm3 at 20 °C
n) Water solubility	No data available
 o) Partition coefficient: n-octanol/water 	No data available
p) Auto-ignition temperature	No data available
q) Decomposition	No data available
temperature	
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available
9.2 Other safety information	
No data available	

10. Stability and reactivity

10.1 Reactivity

10.1 Reactivity
No data available
<u>10.2 Chemical stability</u>
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
No data available
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions Nature of decomposition
products not known.
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 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 Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is IARC: 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: 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

<u>12.4 Mobility in soil</u> 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

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging

Dispose of as unused product.

14. Transport information

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 14.1 UN number

 ADR/RID: 1789 IMDG: 1789 IATA: 1789

 14.2 UN proper shipping name

 ADR/RID: HYDROCHLORIC ACID

 IMDG: HYDROCHLORIC ACID

 IMDG: HYDROCHLORIC ACID

 IATA: Hydrochloric acid

 14.3 Transport hazard class(es)

 ADR/RID: 8

IATA: 8

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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 IMDG Marine pollutant: no IATA: no

15. Regulatory information

<u>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</u> This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. <u>15.2 Chemical safety assessment</u>

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.

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) Wash skin thoroughly after handling. P264 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 Statements none Reduced Labeling (<= 125 ml) Pictogram Signal word Danger Hazard statement(s) Toxic if swallowed. H301 Precautionary statement(s) P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. 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 1.15% 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

Water Foam Carbon dioxide (CO2) Dry p

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.

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.

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

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 <u>and chemical properties</u>

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	
d) pH	No data available	
e) Melting	Melting point/range: 276 - 278 °C - dec.	
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	
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- o) Partition coefficient:
- n-octanol/water p) Autoignition temperature
- q) Decomposition temperature
- r) Viscosity

s) Explosive properties t) Oxidizing properties 9.2 Other safety information

No data available

No data available

No data available

No data available

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

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

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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, C	DRGANIC, N.O.S. (3-Methylbenzothi	azol-2(3H)-one hydrazone
hydrochloride) IMDG:	TOXIC SOLID, ORGANIC, N.O	0.S. (3-Methylbenzothiazol-2(3H)-one
hydrazone hydrochloride)	, 3	c, n.o.s. (3-Methylbenzothiazol-
2(3H)-one hydrazone hydi	rochloride)	
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.

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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.