



Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Sodium,lump

Product code (SDS NO): 70851E-1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku,Osaka ,JAPAN

Division: Safety Management Dept. of Chemicals

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2. Hazards identification

GHS classification and label elements of the product**Classification of the substance or mixture****PHYSICAL AND CHEMICAL HAZARDS**

Substances and mixtures which, in contact with water, emit flammable gases: Category 1

HEALTH HAZARDS

Skin corrosion/irritation: Category 1A

Serious eye damage/eye irritation: Category 1

(Note) GHS classification without description: Not classified/Classification not possible

Label elements

Signal word: Danger

HAZARD STATEMENT

In contact with water releases flammable gases which may ignite spontaneously

Causes severe skin burns and eye damage

Causes serious eye damage

PRECAUTIONARY STATEMENT**Prevention**

Do not allow contact with water.

Handle under inert gas/appropriate liquid or gas. Protect from moisture.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash contaminated parts thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Response

In case of fire: Use appropriate media other than water for extinction.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN: Brush off loose particles from skin. Immerse in cool water.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Storage**

Store in a dry place. Store in a closed container.

Disposal

Dispose of contents/container in accordance with local/national regulation.

Specific Physical and Chemical hazards

May catch fire or form flammable gas in contact with water.

3. Composition/information on ingredients**Mixture/Substance selection:****Substance**

Ingredient name:Sodium

Content (%):99(min)

Chemical formula:Na

CAS No.:7440-23-5

MW:22.98

ECNO:231-132-9

Note : The figures shown above are not the specifications of the product.

Impurities and stabilizing additives

Soak in Kerosine (CAS No.8008-20-6). Hazard statement is explained by reference to SDS of Kerosine.

Kerosine include Xylene \leq 1.4%(CAS No.1330-20-7) and 1,2,4-Trimethylbenzene \leq 1.7%(CAS No.95-63-6).

4. First-aid measures**Descriptions of first-aid measures****IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF ON SKIN: Brush off loose particles from skin. Immerse in cool water.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth. Do NOT induce vomiting.

Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

dry powder, dry sand to extinguish.

Unsuitable extinguishing media

Indoor firefighting equipment or outdoor firefighting equipment

Sprinkler equipment

Moisture firefighting equipment or water spray firefighting equipment

Foam firefighting equipment

Inactive gas firefighting equipment

Halogenated firefighting system



- Dry-powder firefighting equipment – phosphate etc.
- Straight stream water extinguisher
- Water mist extinguisher
- Reinforcing liquid jet extinguisher
- Misty reinforcing liquid extinguisher
- Foam extinguisher
- Carbon dioxide extinguisher
- Halogenated extinguisher
- Dry-powder extinguisher – phosphate etc.
- Bucket of water or tank of water
- Specific hazards arising from the substance or mixture
 - Containers may explode when heated.
 - Fire may produce irritating, corrosive and/or toxic gases.
- Advice for firefighters
 - Specific fire-fighting measures
 - Evacuate non-essential personnel to safe area.
 - Special protective equipment and precautions for fire-fighters
 - Wear fire/flame resistant/retardant clothing.
 - Wear protective gloves/protective clothing/eye protection/face protection.
 - Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

6. Accidental release measures

- Personnel precautions, protective equipment and emergency procedures
 - Ventilate area until material pick up is complete.
 - Wear proper protective equipment.
- Environmental precautions
 - Prevent spills from entering sewers, watercourses or low areas.
- Methods and materials for containment and cleaning up
 - Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.
 - Sweep up, place in a bag and hold for waste disposal.
- Preventive measures for secondary accident
 - Collect spillage.

7. Handling and storage

- Precautions for safe handling
 - Preventive measures
 - (Exposure Control for handling personnel)
 - Do not breathe dust/fume/gas/mist/vapors/spray.
 - (Protective measures against fire and explosion)
 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
 - Do not allow contact with water.
 - (Exhaust/ventilator)
 - Exhaust/ventilator should be available.
 - (Safety treatments)
 - Avoid contact with skin.
 - Avoid contact with eyes.
 - Safety Measures
 - Wear protective gloves/protective clothing/eye protection/face protection.
 - Handle under inert gas/appropriate liquid or gas. Protect from moisture.
 - When using do not eat, drink or smoke.

**Any incompatibilities**

See "10.Stability and Reactivity"

Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.

Wash contaminated clothing before reuse.

Storage**Conditions for safe storage**

Keep container tightly closed.

Store in a dry place. Store in a closed container.

Store in a cool, dry place. Do not store in direct sunlight.

Keep under lock and key.

Container and packaging materials for safe handling

Glass

8. Exposure controls/personal protection**Control parameters****Adopted value**

(Xylene)

ACGIH(1992) TWA: 100ppm

STEL: 150ppm (URT & eye irr; CNS impair)

(Kerosine)

ACGIH(2003) TWA: 200mg/m³(P) (Skin & URT irr; CNS impair)

Notation

(Kerosine)

Skin

OSHA-PEL

XyleneTWA: 100ppm, 435mg/m³

Exposure controls**Appropriate engineering controls**

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures**Respiratory protection**

Wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

9. Physical and Chemical Properties**Information on basic physical and chemical properties**

Physical state: Solid

Color: Silver to gray

Odor: None

pH data is not available.

Boiling point or initial boiling point: 880°C

Boiling range data is not available.

Melting point/Freezing point: 97.8°C

Decomposition temperature data is not available.

Flash point data is not available.

Auto-ignition temperature: 120 through 125°C



Lower and upper explosion limit/flammability limit data is not available.

Vapor pressure: negligible (20°C)

Density and/or relative density: 0.97g/cm³

Solubility:

Solubility in water: Reaction

n-Octanol/water partition coefficient data is not available.

10. Stability and Reactivity

Reactivity

Reacts violently with water.

Chemical stability

Affected by oxygen, carbon dioxide and moisture in the air.

Possibility of hazardous reactions

Reacts violently with water. This generates fire and explosion hazard. Decomposes rapidly under the influence of air and moisture. This produces flammable/explosive gas (hydrogen). (ICSC 0717)

Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

Incompatible materials

Water

Hazardous decomposition products

Hydrogen

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[GHS Cat. Japan, base data]

(Xylene)

rat LD50=3500 – 8800mg/kg (NITE risk assessment, 2008)

(1,2,4-Trimethylbenzene)

female rat LD50=5000mg/kg (RTECS, 2008)

Acute toxicity (Dermal)

[GHS Cat. Japan, base data]

(Xylene)

rabbit LD50=1700mg/kg (EPA Pesticide, 2005)

Acute toxicity (Inhalation)

[GHS Cat. Japan, base data]

(Xylene)

vapor: rat LC50=6350–6700ppm/4hr (NITE primary risk assessment, 2008)

Irritant properties

Skin corrosion/irritation

[GHS Cat. Japan, base data]

(Xylene)

rabbit erythema, edema, necrosis (NITE primary risk assesment, 2008)

(Sodium)

corrosive (HSDB, 2005)

(Kerosine)

human irritation(ACGIH 7th, 2001 et al)

Serious eye damage/irritation

[GHS Cat. Japan, base data]



(Xylene)
rabbit mild to moderate (NITE primary risk assessment, 2008)
(Sodium)
severe damage (HSDB, 2005)

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenicity

(Xylene)
IARC-Gr.3 : Not Classifiable as a Human Carcinogen
(Kerosine)
ACGIH-A3(2003) : Confirmed Animal Carcinogen with Unknown Relevance to Humans
(Xylene)
ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen

Reproductive toxicity data is not available.

STOT

STOT-single exposure
[cat.3 (resp. irrit.)]
[GHS Cat. Japan, base data]
(Kerosine)
respiratory tract irritation (ACGIH 7th, 2001)
(1,2,4-Trimethylbenzene)
respiratory tract irritation (ACGIH 7th, 2001)
[cat.3 (drow./dizz.)]
[GHS Cat. Japan, base data]
(Kerosine)
narcosis (ACGIH 7th, 2001)
(Xylene)
narcosis (NITE risk assessment, 2008)
(1,2,4-Trimethylbenzene)
narcosis (PATTY 5th, 2001)

STOT-repeated exposure data is not available.

Aspiration hazard data is not available.

12. Ecological Information

Ecotoxicity

Aquatic toxicity

Aquatic acute toxicity component(s) data
[GHS Cat. Japan, base data]
(Xylene)
Fish (rainbow trout) LC50=3.3mg/L/96hr (NITE primary risk assessment, 2005)
(1,2,4-Trimethylbenzene)
Crustacea (Daphnia magna) EC50=6.14mg/L/48hr (IUCLID, 2000)
(Sodium)
Crustacea (Daphnia magna) EC50=1640mg/L/48hr (Aquire, 2003)

Water solubility

(Kerosine)
none (ICSC, 1998)
(1,2,4-Trimethylbenzene)
very poor (ICSC, 2002)
(Sodium)
reaction (Merk 13th, 2001)

Persistence and degradability

(Xylene)



Not degrade rapidly (BOD_Degradation : 39% (NITE primary risk assessment, 2005))
(1,2,4-Trimethylbenzene)
BOD_Degradation : 4-18% (Registered chemicals data check & review, 1977)

Bioaccumulative potential

(Xylene)
log Pow=3.16 (PHYSPROP DB, 2005)
(1,2,4-Trimethylbenzene)
log Pow=3.8 (ICSC, 2002)

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

13. Disposal considerations**Waste treatment methods**

Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

UN No.: 1428
Proper Shipping Name :
SODIUM
Class or division : 4.3
Packing group : I
ERG GUIDE No.: 138

IMDG Code (International Maritime Dangerous Goods Regulations)

UN No.: 1428
Proper Shipping Name :
SODIUM
Class or division : 4.3
Packing group : I

IATA Dangerous Goods Regulations

UN No.: 1428
Proper Shipping Name :
SODIUM
Class or division : 4.3
Hazard labels : Dang. when wet
Packing group : I
Special provisions No.: A1

Environmental hazards

MARPOL Annex III – Prevention of pollution by harmful substances

Marine pollutants (yes/no) : no

Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Noxious Liquid ; Cat. X
1,2,4-Trimethylbenzene
Noxious Liquid ; Cat. Y
Xylene



15. Regulatory Information

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

US major regulations

TSCA

1,2,4-Trimethylbenzene; Xylene; Sodium; Kerosine

Other regulatory information

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

16. Other information

GHS classification and labelling

Water-react. 1: H260 In contact with water releases flammable gases which may ignite spontaneously

Skin Corr. 1A: H314 Causes severe skin burns and eye damage

Eye Dam. 1: H318 Causes serious eye damage

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (6th ed., 2015), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN

IMDG Code, 2018 Edition (Incorporating Amendment 39-18)

IATA Dangerous Goods Regulations (60th Edition) 2019

Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)

2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2019 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2018).