

Date of issue: 23/04/2018

Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Cyclopentanone Product code(SDS NO): 1957E-1 Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku,Osaka 540-0029,JAPAN Division: Safety Management Dept. of Chemicals Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 e-mail address: kagakuhinanzenkanri@kishida.co.jp

2. Hazards identification
GHS classification and label elements of the product
Classification of the substance or mixture
Physical and chemical hazards
Flammable liquids: Category 3
HEALTH HAZARDS
Acute toxicity Oral: Category 4
Serious eye damage/eye irritation: Category 2A
(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable
Label elements



Signal word: Warning HAZARD STATEMENT Flammable liquid and vapor Harmful if swallowed Causes serious eye irritation PRECAUTIONARY STATEMENT

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash contaminated parts thoroughly after handling.

Wear protective gloves and face protection.

Wear eye protection/face protection.

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

Response

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

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



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. Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Storage Store in a well-ventilated place. Keep cool. Disposal Dispose of contents/container in accordance with local/national regulation. Physical and Chemical hazards

Flammable liquid. Vapor/air mixture may explode.

3. Composition/information on ingredients

Mixture/Substance selection: Substance Ingredient name:Cyclopentanone Content(%):99(min) Chemical formula:C5H8O Chemicals No, Japan:9-2108 CAS No.:120-92-3

ECNO:204-435-9 Note : The figures shown above are not the specifications of the product.

4. First-aid measures

MW:84.12

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

5. Fire-fighting measures

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Extinguishing media
Suitable extinguishing media
Use appropriate extinguishing media suitable for surrounding facilities.
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 peace operated positive pressure mode.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures
 Ventilate area after material pick up is complete.
 Wear proper protective equipment.
 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.

Preventive measures for secondary accident Collect spillage.

7. Handling and storage

Precautions for safe handling	
Preventive measures	
(Protective measures against fire and explosion)	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Exhaust/ventilator	
Exhaust/ventilator should be available.	
Safety treatments	
Avoid contact with skin.	
Avoid contact with eyes.	
Safety Measures/Incompatibility	
Wear protective gloves, protective clothing or face protection.	
Wear eye protection/face protection.	
When using do not eat, drink or smoke.	
Conditions for safe storage, including any incompatibilities	
Recommendation for storage	
Keep container tightly closed.	
Store in a cool, dry place. Do not store in direct sunlight.	

8. Exposure controls/personal protection 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.



Safety and Health measures Wash … thoroughly after handling. Do not eat, drink or smoke when using this product.

9. Physical and Chemical Properties Information on basic physical and chemical properties Physical properties Appearance: Liquid Color: Colorless to pale yellow Odor: Characteristic odor Phase change temperature Initial Boiling Point/Boiling point: 131°C Melting point/Freezing point: -51°C Decomposition temperature data N.A. Flash point: (Cyclopentanone)26°C Auto-ignition temperature data N.A. Explosive properties data N.A. Vapor pressure data N.A. Vapor density data N.A. Relative Vapor Density (Air=1): 2.3 Specific gravity/Density: 0.95 Solubility Solubility in water: Poor n-Octanol /water partition coefficient data N.A.

10. Stability and Reactivity

Chemical stability
Stable under normal storage/handling conditions.

Possibility of hazardous reactions

The substance easily polymerizes under the influence of acids. (ICSC 0427)

Conditions to avoid

Contact with incompatible materials.
Contact with fire source.

Incompatible materials

Acids, Strong bases, Oxidizing agents
Hazardous decomposition products
Carbon oxides

11. Toxicological Information

Information on toxicological effects
Acute toxicity
Acute toxicity (Oral)

[GHS Cat. Japan, base data]
(Cyclopentanone)
rat LD50= 1200 mg/kg (JECFA, 2003)

Irritant properties

Serious eye damage /irritation
[GHS Cat. Japan, base data]
(Cyclopentanone)
rabbit highly irritating (IUCLID, 2000)

No Allergenic and sensitizing effects data available



No Mutagenic effects data available

No Carcinogenic effects data available

- No Teratogenic effects data available
- No reproductive toxicity data available
- No STOT-single/repeated exposure data available

No Aspiration hazard data available

12. Ecological Information

Ecotoxicity
Aquatic toxicity
Aquatic acute toxicity component(s) data

[GHS Cat. Japan, base data]
(Cyclopentanone)
Crustacea (Daphnia magna) EC50 = 1435 mg/L/24hr (AQUIRE, 2010)

Water solubility

(Cyclopentanone)
0.0009177 g/100 ml (PHYSPROP Database, 2009)

No Persistence and degradability data available
No Bioaccumulative potential data available
No Mobility in soil data available
Ozone depleting chemical data not available

 Disposal considerations Waste treatment methods Dispose of contents/container in accordance with local/national regulation.

14. Transport Information UN number: 2245 UN proper shipping name: CYCLOPENTANONE Transport hazard class(es): 3 Packing group: III ERG GUIDE NO.: 128

15. Regulatory Information
 Safety, health and environmental regulations/legislation specific for the substance or mixture
 US major regulations
 TSCA
 Cyclopentanone
 Other regulatory information
 Ensure this material in compliance with federal requirements and ensure conformity to local
 regulations.

16. Other information
 GHS classification and labelling
 Flam. Liq. 3: H226 Flammable liquid and vapor
 Acute Tox. 4: H302 Harmful if swallowed
 Eye Irrit. 2A: H319 Causes serious eye irritation
 Reference Book



Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2017 TLVs and BEIs. (ACGIH) http://monographs.iarc.fr/ENG/Classification/index.php

Supplier's data/information

Hazard Communication Standard - 2012

General Disclaimer

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

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 2016).