JUNSEI

Safety Data Sheet

1. Product and company identification

Product name	: Iodoethane
Name of manufacturer	: Junsei Chemical Co., Ltd.
Adress	: 4-16, 4-Chome, Nihonbashi-Honcho, Chuo-ku Tokyo, 103-0023, JAPAN
Name of section	: Quality Assurance Department
Telephone number	: +81-48-986-6161
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Mail address	: shiyaku-t@junsei.co.jp

2. Summary of danger and Hazard

GHS classification

Physical and chemical hazard

Flammable liquids : Category 3

Pyrophoric liquids : Out of category

Human health hazard

Acute toxicity(oral) : Category 3

Acute toxicity(inhalation:vapors)

: Category 3

Skin corrosion・Irritation

: Category 2

Serious eye damage・Eye irritation

: Category 2A

Specific target organ systemic toxicity(single exposure)

: Category 2、 Category 3 (respiratory tract irritation)

Pictogram or symbol

Signal word : Danger

Hazard statement : Flammable liquid and vapor
Toxic if swallowed
Toxic if inhaled
Causes skin irritation
Causes serious eye irritation
May cause damage to organs (central nervous system)
May cause respiratory irritation

Cautions

Safety measurements : Keep away from ignition sources such as heat, sparks, or open flame.
Keep containers tightly closed.

Ground container and receiving equipment in case of transport and stirring.

Use explosion-proof apparatus.

Use only non-sparking tools.

Do not breathe dust, mist, and vapor.

Use only in a well-ventilated area.

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

Wear appropriate protective gloves, glasses, clothing, face shield, or mask.

Wash protective equipment thoroughly after use.

Wash hands thoroughly after handling.

First-aid measures : If inhaled : Remove victim to fresh air and keep at rest *in a position* comfortable for breathing. Immediately get medical treatment.

If swallowed: Induce vomiting, if possible, and rinse mouth. Immediately get medical treatment.

If in eyes : Rinse cautiously with water for several minutes. Get medical treatment.

If on skin : Remove contaminated clothing and the substance. Get medical treatment, if you feel unwell.

Wash hands thoroughly after handling.

If exposed, get medical treatment.

Storage : Tightly container closed and store in a well-ventilated area.

Store locked up.

Disposal : Dispose of contents and containers appropriately in accordance with related regulations.

3. Composition/Information on ingredients

Substance/Mixture : Substance

Chemical name or commercial name : Iodoethane

Synonyms : Ethyl iodide

Ingredients and composition : Iodoethane min. 94.0%

Chemical formula : CH_3CH_2I

CAS No. : 75-03-6

TSCA Inventory : Registered

EINECS No. : 2008331

Dangerous and hazardous ingredients : Iodoethane

4. First aid measures

Inhalation : Remove the victim to fresh air, and make him blow his nose and gargle.

Skin contact : Wash the affected areas under running water.

Eye contact : Wash the affected areas under running water for at least 15 minutes. Get medical treatment.

Ingestion : Give the victim water or salt water and make him vomit. Get medical attention.

Protection for first aid person

: Savers wear proper protective equipment like rubber gloves, goggles.

5. Fire fighting measures

Extinguishing media : Dry chemical powder, carbon dioxide, dry sand, foam

Prohibited extinguishing media

: Water spray

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.

Keep personnel removed from and unwind of fire.

Dry chemical powder, carbon dioxide or dry sand should be used for small fires. Foam extinguisher is effective for a large scale fire.

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. Keep personnel removed from and upwind of fire. Shut off all sources of ignition. Keep away personnel except for authorized ones from spillage area by stretching ropes.

Cautions for environment : Attention should be given not to cause damage to the environment by flowing of spillage to rivers.

Removal measure : Absorb spill with inert material (e.g., diatomaceous earth, sand) and flush residual area with copious amounts of water.

7. Cautions of handling and storage

Handling

Engineering measures : Wear proper protective equipment not to contact with skin or inhale the vapor.

Cautions for safety handling

: Use with an enclosed system or a local exhaust ventilation.

Storage

Adequate storage condition

: Store in a dark, cool place and tightly closed.

Safety adequate container materials

: Glass, fluorine resin

8. Exposure control/Personal protection

Engineering measures : Use only with adequate ventilation and in closed systems.

Control parameters

ACGIH(2009) : Not established

Protective equipment

Respiration protective equipment

: If necessary, wear chemical cartridge respirator with an organic vapor cartage

Hands protective equipment
: Organic solvents resistant gloves

Eyes protective equipment
: Safety goggles

Skin and body protective equipment
: Protective clothing, protective boots

9. Physical and chemical properties

Appearance	: Liquid
Color	: Colorless
Odor	: Ethereal odor
Boiling point	: 72.3℃
Melting point	: -108℃
Flash point	: 53℃
Auto-ignition point	: Not available
Vapor pressure	: 133hPa(18℃)
Vapor density	: 5.4
Specific gravity	: 1.929g/ml(20℃)
Solubility	
Solubility in solvents	: Water ; 4g/water 1L(20℃)
	Organic solvents ; Soluble in ethanol, ether
Other data	: Turn to brown by light.

10. Stability and reactivity

Stability	: Stable under normal usage.
Reactivity	: Mixture with oxidizing substances may generate heat or ignite by heating, shock, or friction.
Incompatible conditions	: Light, heat
Incompatible materials	: Oxidizing substances
Hazardous decomposition products	
	: Carbon monoxide

11. Toxicological information

Acute toxicity	: Toxic if swallowed(category 3)
	Dermal : Not possible to classify because of insufficient data.
	Toxic if inhaled(vapor)(category 3)
	Inhalation(dust, mist) : Not possible to classify because of insufficient data.
	rat oral LD50=330mg/kg
	rat inhalation LC50=6500mg/m3/30M
Skin corrosiveness	: Causes skin irritation(category 2)
	-(Empty)-
Irritation to skin, eyes	: Causes serious eye irritation(category 2A)
	-(Empty)-

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.

Mutagenicity : Not possible to classify because of insufficient data.

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

: May cause damage to organs (central nervous system) (category 2)

May cause respiratory irritation(category 3)

-(Empty)-

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.

Rediualbility and degradability

: Not available

Ecorediualbility : Not available

Mobility : May transfer to the atmosphere, water or soil because of physical and chemical properties.

13. Disposal consideration

Residual disposal : Mix the material with combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber as possible as high temperature. Or else consult approved disposal companies.

<Note> : Alkaline solution should be used for cleaning liquid of the scrubber.

The incinerator should be suitable for burning organic halide compounds.

Containers : In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

14. Transport information

UN class : Class 3(Flammable liquids) P. G. Ⅲ

UN number : 1992

Marine regulation information

UN No. : 1992

Proper shipping name : FLAMMABLE LIQUID, TOXIC, N.O.S.

Class : 3

Sub risk : 6.1

Packing group	:	Ⅲ
Marine pollutant	:	Not applicable

Aviation regulation information

UN No.	:	1992
Proper shipping name	:	Flammable liquid, toxic, n.o.s.
Class	:	3
Sub risk	:	6.1
Packing group	:	Ⅲ

15. Regulatory information

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

16. Other information

References

Solvents Handbook, T, Asahara el, Kodansha Scientific Ltd. (1976)

Registry of Toxic Effects of Chemical Substances (RTECS) 1985-86 ed. National Instituted for Occupational Safety and Health(1987)

Handbook of 15710 Chemical Products, The Chemical Daily Co. (2010)

The information contained herein is based on several references and the present state of our knowledge. However the MSDS 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.