

Isopar L

1. identification

A. Product name

- Iso-Paraffin L [PD1145]

B. Recommended use and restriction on use

- General use : Not available
- Restriction on use : only for purposed use

C. Manufacturer / Supplier / Distributor information

○ Supplier/Distributor information

- Company name : GODO CHEMICAL Corporation
- Address : #1017, 10F Suseo Hyundai Ventureville 10 Bamgogae-ro 1-gil
Gangnam-gu Seoul 06349 Korea
- Telephone number : (82)2 417 2555~6
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2. hazard identification

A. GHS Classification

- Flammable liquids : Category4
- Specific target organ toxicity(Single exposure) : Category2
- Aspiration hazard : Category1
- Chronic aquatic toxicity : Category4

B. GHS label elements

○ Hazard symbols



○ Signal words

- Danger

○ Hazard statements

- H227 Flammable liquids
- H304 May be fatal if swallowed and enters airways
- H371 May cause damage to organs (Refer Section SDS 11)
- H413 May cause long lasting harmful effects to aquatic life

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○ Precautionary statements

1) Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P260 Do not breathe gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

2) Response

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P309+P311 If exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
- P331 Do NOT induce vomiting.
- P370+P378 In case of fire: Use Suitable extinguishing media for extinction(Refer Section MSDS

5).

3) Storage

- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

4) Disposal

- P501 Dispose of contents/container in accordance with local/regional/national/international regulation

C. Other hazards which do not result in classification : (NFPA Classification)

○ NFPA grade (0 ~ 4 level)

- Health : 1 , Flammability : 3, Reactivity : 0

3. composition/information on ingredients

Chemical Name	Trade names and Synonyms	CAS No.	Content(%)
Naphtha (petroleum), hydrotreated heavy	Naphtha	64742-48-9	100

4. first aid measures

A. Eye contact

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15minutes and call a doctor/physician.
- Get medical attention immediately.

B. Skin contact

- Flush skin with plenty of wter for at least 15 minutes while removing contaminated clothing and shoes.
- Laundering enough contaminated clothing before reuse.
- Get medical attention immediately.

C. Inhalation contact

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.
- Get medical attention immediately.

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D. Ingestion contact

- About whether I should induce vomiting Take the advice of a doctor.
- Rinse your mouth with water immediately.
- Get medical attention immediately.
- If swallowed, large amounts of water to drink and do not induce vomiting.

E. Delayed and immediate effects and also chronic effects from short and long term exposure

- Not available

F. Notes to physician

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

5. fire fighting measures

A. Suitable (Unsuitable) extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray
- Avoid use of water jet for extinguishing

B. Specific hazards arising from the chemical

- Not available

C. Special protective actions for firefighters

- Cool containers with water until well after fire is out.
- Keep unauthorized personnel out
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Notify your local firestation and inform the location of the fire and characteristics hazard.
- Using a unattended and water devices in case of large fire and leave alone to burn if you do not imperative.
- Keep containers cool with water spray.
- Vapor or gas is burned at distant ignition sources can be spread quickly.

6. additional release measures

A. Personal precautions, protective equipment and emergency procedures

- Wear proper personal protective apparatus as indicated in Section 8 and avoid skin contact and inhalation.
- Ventilate closed spaces before entering.
- Must work against the wind, let the up wind people to evacuate.
- Move container to safe area from the leak area.
- Do not direct water at spill or source of leak.

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B. Environmental precautions

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.

C. Methods and materials for containment and cleaning up

- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notification to central government, local government. When emissions at least of the standard amount
- Dispose of waste in accordance with local regulation.
- Appropriate container for disposal of spilled material collected.
- Small leak: sand or other non-combustible material, please let use absorption.
- Wipe off the solvent.
- Dike for later disposal.
- Prevent the influx to waterways, sewers, basements or confined spaces.

7. handling and storage

A. Precautions for safe handling

- Avoid contact with incompatible materials.
- Dealing only with a well-ventilated place.
- Do not handle until all safety precautions have been read and understood.
- Do not inhale the steam prolonged or repeated.

B. Conditions for safe storage, including any incompatibilities

- Save in cool, dry and well ventilated place.
- Do not apply direct heat.
- Avoid direct sunlight.
- Prevent static electricity and keep away from combustible materials or heat sources.
- Collected them in sealed containers.
- Store away from water and sewer.

8. exposure controls/personal protection

A. Exposure limits

- ACGIH TLV
 - Not available
- OSHA PEL
 - Not available

B. Engineering controls

– A system of local and/or general exhaust is recommended to keep employee exposures above the Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. The use of local exhaust ventilation is recommended to control emissions near the source.

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C. Individual protection measures, such as personal protective equipment

○ Respiratory protection

- Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
- Respiratory protection is ranked in order from minimum to maximum.
- Consider warning properties before use.
- Any chemical cartridge respirator with organic vapor cartridge(s).
- Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).
- Any air-purifying respirator with a full facepiece and an organic vapor canister.
- For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

○ Eye protection

- Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- Provide an emergency eye wash station and quick drench shower in the immediate work area.

○ Hand protectio

- Wear appropriate chemical resistant glove.

○ Skin protection

- Wear appropriate chemical resistant protective clothing.

○ Others

- Not available

9. physical and chemical properties

A. Appearance	
- Appearance	Liquid
- Color	colorless
B. Odor	petrochemical
C. Odor threshold	Not available
D. pH	Not available
E. Melting point/Freezing point	Not available
F. Initial Boiling Point/Boiling Ranges	180 °C ~ 210 °C
G. Flash point	> 61 °C
H. Evaporation rate	Not available
I. Flammability(solid, gas)	Not available
J. Upper/Lower Flammability or explosive limits	6 / 0.7 %
K. Vapour pressure	(0.1~0.3kPa (20°C))
L. Solubility	(insoluble)
M. Vapour density	Not available
N. Specific gravity(Relative density)	(0.76~0.79)
O. Partition coefficient of n-octanol/water	2.1 ~ 6 (estimate)
P. Autoignition temperature	255~270°C
Q. Decomposition temperature	Not available
R. Viscosity	1.5 cSt (40°C)
S. Molecular weight	Not available



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10. stability and reactivity

A. Chemical Stability

- This material is stable under recommended storage and handling conditions.

B. Possibility of hazardous reactions

- Hazardous Polymerization will not occur.

C. Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces

D. Incompatible materials

- Not available

E. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

11. toxicological information

A. Information on the likely routes of exposure

- (Respiratory tracts)
 - May be fatal if swallowed and enters airways
- (Oral)
 - Not available
- (Eye·Skin)
 - Not available

B. Delayed and immediate effects and also chronic effects from short and long term exposure

- Acute toxicity
 - * Oral
 - [Naphtha (petroleum), hydrotreated heavy] : LD50 > 15000 mg/kg Rat (IUCLID)
 - * Dermal
 - [Naphtha (petroleum), hydrotreated heavy] : LD50 > 3160 mg/kg Rabbit (IUCLID)
 - * Inhalation
 - Not available
- Skin corrosion/irritation
 - Not available
- Serious eye damage/irritation
 - Not available

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- Respiratory sensitization
 - Not available
- Skin sensitization
 - Not available
- Carcinogenicity
 - * IARC
 - Not available
 - * OSHA
 - Not available
 - * ACGIH
 - Not available
 - * NTP
 - Not available
 - * EU CLP
 - [Naphtha (petroleum), hydrotreated heavy] : Carc. 1B (Note P). The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene.
- Germ cell mutagenicity
 - Not available
- Reproductive toxicity
 - Not available
- STOT–single exposure
 - May cause damage to organs (The substance may cause effects on the central nervous system. Exposure to high concentrations of vapour could cause unconsciousness. If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis.) (ICSC)
- STOT–repeated exposure
 - Not available
- Aspiration hazard
 - May be fatal if swallowed and enters airways

12. ecological information



A. Ecotoxicity

 Fish

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- [Naphtha (petroleum), hydrotreated heavy] : LC50 = 2200 mg/L 96 hr (Species: *Pimephales promelas*)

(IUCLID)

 Crustaceans

- [Naphtha (petroleum), hydrotreated heavy] : LC50 = 2.6 mg/L 96 hr (Species: *Chaetogammarus marinus*) (IUCLID)

 Algae

- Not available

B. Persistence and degradability

 Persistence

- [Naphtha (petroleum), hydrotreated heavy] : log Kow = 2.1 ~ 6 (Estimate)

 Degradability

- Not available

C. Bioaccumulative potential

 Bioaccumulative potential

- Not available

 Biodegradation

- [Naphtha (petroleum), hydrotreated heavy] : Biodegradability = 10 (%) 28 day (Aerobic, Activated Sludge, Domestic wastewater, Does not decompose easily)

D. Mobility in soil

- Not available

E. Other adverse effects

- Not available

13. disposal considerations



A. Disposal methods

- Since more than two kinds of designated wastes is mixed, it is difficult to treat separately, it can be reduction or stabilization by incineration or similar process.
- If water separation is possible, pre-process with Water separation process.
- Dispose by incineration.
- Incinerate the oil by separating the oil and water
- The remainder of the water after separation will be processed in a water pollution prevention facilities.
- Do incineration or stabilization of the residue after disposal as the method of evaporation and concentration.
- Do incineration of the residue after disposal as the method of agglomeration and precipitation.
- Take care of incinerate or stabilization after treatment, purified by means of Separation•distillation•extractio•filtration• pyrolysis

B. Special precautions for disposal

- The user of this product must disposal by oneself or entrust to waste disposer or person who other's waste recycle and dispose, person who establish and operate waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

14. transport information

A. UN No. (IMDG)

- Not applicable

B. Proper shipping name

- Not applicable

C. Hazard Class

- Not applicable

D. IMDG Packing group

- Not applicable

E. Marine pollutant

- Not applicable

F. Special precautions for user related to transport or transportation measures

- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- Air transport(LATA): Not subject to LATA regulations.
- EmS FIRE SCHEDULE : F-E (Non-water-reactive flammable liquids)
- EmS SPILLAGE SCHEDULE : S-D (Flammable liquids)

15. regulatory information

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A. National and/or international regulatory information

- POPs Management Law
 - Not applicable
- Information of EU Classification
 - * Classification
 - [Naphtha (petroleum), hydrotreated heavy] : Carc. Cat. 2; R45/Muta. Cat. 2; R46, Xn; R65
 - * Risk Phrases
 - [Naphtha (petroleum), hydrotreated heavy] : R45, R65, R46
 - * Safety Phrase
 - [Naphtha (petroleum), hydrotreated heavy] : S53, S45
- U.S. Federal regulations
 - * OSHA PROCESS SAFETY (29CFR1910.119)
 - Not applicable
 - * CERCLA Section 103 (40CFR302.4)
 - Not applicable
 - * EPCRA Section 302 (40CFR355.30)
 - Not applicable
 - * EPCRA Section 304 (40CFR355.40)
 - Not applicable
 - * EPCRA Section 313 (40CFR372.65)
- Rotterdam Convention listed ingredients
 - Not applicable
- Stockholm Convention listed ingredients
 - Not applicable
- Montreal Protocol listed ingredients
 - Not applicable

16. other information



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A. Reference

– The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

– This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS, NLM,SIDS, IPCS

B. Issue date

– 2015-06-04

C. Revision number and Last date revised

– 3 times, 2018-08-03

D. Other

– This SDS is prepared according to the Globally Harmonized System (GHS).

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