

1. identification

A. Product name

- Iso-Paraffin G [PD1144]

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

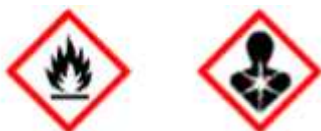
2. hazard identification

A. GHS Classification

- Flammable liquids : Category3
- 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

- H226 Flammable liquid and vapour
- 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

○ Precautionary statements

1) Prevention

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- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools. Flammable liquids (chapter 2.6) 1, 2, 3
- P243 Take precautionary measures against static discharge.
- 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.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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).

st/fume/gas/mist/vapours/spray.

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 heav	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.

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.

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- 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.
- Due to the extremely low flash point, irrigating fire extinguishing may be less effective when put out a fire.

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.
- Must work against the wind, let the upwind people to evacuate.
- Do not touch spilled material. Stop leak if you can do it without risk.
- Move container to safe area from the leak area.
- Do not direct water at spill or source of leak.

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.
- Do not use plastic containers.
- Prevent the influx to waterways, sewers, basements or confined spaces.

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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.
- Avoid contact with heat, sparks, flame or other ignition sources.

B. Conditions for safe storage, including any incompatibilities

- Save in cool, dry and well ventilated place.
- Do not apply direct heat.
- Save applicable laws and regulations.
- 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

- 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 selfcontained 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 protection
 - Wear appropriate chemical resistant glove.
- Skin protection
 - Wear appropriate chemical resistant protective clothing.
- Others
 - Not available

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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	158 °C ~ 190 °C
G. Flash point	≥ 40 °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	>1
N. Specific gravity(Relative density)	0.74~0.77
O. Partition coefficient of n-octanol/water	2.1 ~ 6 (estimate)
P. Autoignition temperature	365°C
Q. Decomposition temperature	Not available
R. Viscosity	1.2cst (40°C)
S. Molecular weight	Not available

10. stability and reactivity

A. Chemical Stability

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

B. Possibility of hazardous reactions

- Cylinders exposed to fire may vent and release flammable gas.

C. Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces
- Avoid contact with heat, sparks, flame or other ignition sources.

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
- 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 (Refer Section SDS 11)

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- STOT-repeated exposure
 - Not available
- Aspiration hazard
 - May be fatal if swallowed and enters airways

12. ecological information

A. Ecotoxicity

- Fish
 - [Naphtha (petroleum), hydrotreated heavy] : LC50 = 2200 mg/L 96 hr 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 designaed waste is mixed, it is difficult to treat seperatly, then 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)

- 3295

B. Proper shipping name

- HYDROCARBONS, LIQUID, N.O.S.

C. Hazard Class

- 3

D. IMDG Packing group

- III

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(IATA): Not subject to IATA regulations.
- EmS FIRE SCHEDULE : F-E (Non-water-reactive flammable liquids)
- EmS SPILLAGE SCHEDULE : S-D (Flammable liquids)

15. regulatory information

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)
 - Not applicable
- Rotterdam Convention listed ingredients
 - Not applicable
- Stockholm Convention listed ingredients
 - Not applicable
- Montreal Protocol listed ingredients
 - Not applicable

16. other information

A. Reference

– The information contained herein is believed to be accurate. It is provided independently of any sale of the product for urpose of hazard communication. It is not intended to constitute performance information concerning the product. No express arranty, 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).