

# **SAFETY DATA SHEET**

Revision date: 2019-11-22 Version: 20191119\_1163.0

### 1. IDENTIFICATION

A. Product name

B. Recommended use and restriction on use

- General use

- Restriction on use

C. Manufacturer / Supplier / Distributor information

O Manufacturer information

- Company name
SK GlobalChemical Co.,Ltd.

- Address

Office) SK Bldg., 26, Jong-ro, Jongno-gu, Seoul, Korea Plant) 2, Sinyeocheon-ro, Nam-gu, Ulsan, Korea R&D) 325, Exporo, Yuseong-gu, Daejeon, Korea

- Dept.

Safety Health Environment Team

- Telephone number

- Emergency telephone number

82-52-208-2114

- Fax number

- E-mail address

O Supplier/Distributer information

- Company name
SK GlobalChemical Co.,Ltd.

- Address

Office) SK Bldg., 26, Jong-ro, Jongno-gu, Seoul, Korea Plant) 2, Sinyeocheon-ro, Nam-gu, Ulsan, Korea R&D) 325, Exporo, Yuseong-gu, Daejeon, Korea

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- Telephone number

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- Fax number

- E-mail address

: SK-SOL 7

: Industrial solvent( lubricants and greases, adhesives and sealants, coating products, polishes and waxes, fillers, putties, plasters, modelling clay, anti-freeze products and finger paints)

: Not available

: 82-2-2121-5114

: 82-2-2121-5114

# 2. HAZARD IDENTIFICATION

## A. GHS Classification

- Flammable liquids : Category2- Skin corrosion/irritation : Category2

- Specific target organ toxicity(Single exposure) : Category3(Narcotic effects)

- Aspiration hazard : Category1

- Chronic aquatic toxicity: Category2

## B. GHS label elements

O Hazard symbols









#### Signal words

- Danger

#### O Hazard statements

- H304 May be fatal if swallowed and enters airways
- H225 Highly flammable liquid and vapour
- H336 May cause drowsiness and dizziness.
- H411 Toxic to aquatic life with long lasting effects
- H315 Causes skin irritation

#### O Precautionary statements

#### 1) Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P273 Avoid release to the environment.
- P271 Use only outdoors or in a well-ventilated area.
- 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.
- P261 Avoid breathing gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.

#### 2) Response

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P321 Specific treatment
- P331 Do NOT induce vomiting.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P370+P378 In case of fire: Use Suitable extinguishing media for extinction(Refer Section MSDS 5).
- P391 Collect spillage.

#### 3) Storage

- P405 Store locked up.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

#### 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)

## O NFPA grade (0 ~ 4 level)

- Health : 1 , Flammability : 2, Reactivity : 0

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

		V	
Chemical Name	Trade names and Synonyms	CAS No.	%[weight]
Naphtha (petroleum), hydrotreated light	Hydrotreated light naphtha (petroleum); Hydrotreated naphtha, light; Naphtha (Chemical Category);	64742-49-0	100

## 4. FIRST AID MEASURES

#### A. Eye contact

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

#### B. Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Wash contaminated clothing thoroughly before re-using.
- Wash thoroughly after handling.
- Get medical attention immediately.
- Go to the hospital immediately if symptoms(flare, irritate) occur.

#### 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

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.
- If swallowed, large amounts of water to drink and do not induce vomiting.
- Get medical attention immediately.

## 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. FIREFIGHTING 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

- Move containers from fire area, if you can do without the risk.
- 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.
- Use appropriate extinguishing measure suitable for surrounding fire.
- 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. ACCIDENTAL RELEASE MEASURES

## A. Personal precautions, protective equipment and emergency procedures

- Do not touch spilled material. Stop leak if you can do it without risk.
- Move container to safe area from the leak area.
- Remove all sources of ignition.
- Do not direct water at spill or source of leak.
- Avoid skin contact and inhalation.

## 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.

## 7. HANDLING AND STORAGE

## A. Precautions for safe handling

- Since emptied containers retain product residue(vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
- Refer to Engineering controls and personal protective equipment.
- Dealing only with a well-ventilated place.
- Operators should wear antistatic footwear and clothing.
- 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

- Check regularly for leaks.
- Do not use damaged containers.
- No open fire.
- 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

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

#### B. Engineering controls

- Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of qas/vapour/mist/fume.

## C. Individual protection measures, such as personal protective equipment

#### O 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 vaporcartridge(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.

#### O 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.

### O Hand protection

- Wear appropriate chemical resistant glove.

#### O Skin protection

- Wear appropriate chemical resistant protective clothing

#### Others

- Not available

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### A. Appearance

Appearance : LiquidColor : Clear colorless

B. Odor : Petroleum hydrocarbon

C. Odor threshold : Not available

D. pH : Technically not feasible

E. Melting point/Freezing point : -91  $^{\circ}$ C F. Initial Boiling Point/Boiling Ranges : 91  $^{\circ}$  98  $^{\circ}$ C G. Flash point : -4  $^{\circ}$ C

H. Evaporation rate: 0.4 (butyl acetate = 1)I. Flammability(solid, gas): Not availableJ. Upper/Lower Flammability or explosive limits: 1.1~6.6%

K. Vapour pressure : 5.3 kPa (40 mm Hg) [room temperature]

L. Solubility : <0.1wt% (Solubility in water)

M. Vapour density : 3.4 [Air = 1]

N. Specific gravity(Relative density) : 0.7

O. Partition coefficient of n-octanol/water : 4.66

P. Autoignition temperature : 285°C

Q. Decomposition temperature : Not available

R. Viscosity : Kinematic (Room temperature): 0.59 cSt

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
- O (Oral)
  - Not available
- (Eye-Skin)
  - Causes skin irritation

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

- O Acute toxicity
  - \* Oral
    - [Naphtha (petroleum), hydrotreated light] : LD50 > 5000 mg/kg Rat (IUCLID)
  - \* Dermal
    - [Naphtha (petroleum), hydrotreated light] : LD50 > 3160 mg/kg Rabbit (IUCLID)
  - \* Inhalation
    - [Naphtha (petroleum), hydrotreated light] : LC50 > 18 mg/L  $\frac{4hr}{LC50}$  = 73680 ppm 4 hr Rat (IUCLID)

Chemgroup

## O Skin corrosion/irritation

- Irritating, Rabbit, OECD Guideline 404 (Acute Dermal Irritation / Corrosion)(ECHA)
- O Serious eye damage/irritation
  - Not irritating(rabbit) (IUCLID)
- O Respiratory sensitization
  - Not available
- O Skin sensitization
  - Not sensitating, guinea pig, OECD Guideline 406 (Skin Sensitisation) (ECHA)
- Carcinogenicity
  - \* IARC
    - Not available
  - \* OSHA
    - Not available
  - \* ACGIH
    - Not available
  - \* NTF
    - Not available
  - \* EU CLP

- Not available
- O Germ cell mutagenicity
  - Negatuve, OECD Guideline 471 (Bacterial Reverse Mutation Assay)(ECHA)
- O Reproductive toxicity
  - Negative, Rat, OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)(ECHA)
- STOT-single exposure
  - May cause drowsiness and dizziness.
- O STOT-repeated exposure
  - Not available
- O Aspiration hazard
  - May be fatal if swallowed and enters airways

# 12. ECOLOGICAL INFORMATION

#### A. Ecotoxicity

- O Fish
  - LL50 (96 h) > 13.4 mg/L (Oncorhynchus mykiss) (ECHA)
- Crustaceans
  - [Naphtha (petroleum), hydrotreated light]: LC50 = 2.6 mg/ℓ 96 hr (Species: Chaetogammarus marinus) (IUCLID)
- O Algae
  - Not available

### B. Persistence and degradability

- Persistence
  - [Naphtha (petroleum), hydrotreated light] : log Kow = 2.1 ~ 6 (Estimate)
- Degradability
  - Not available

#### C. Bioaccumulative potential

- O Bioaccumulative potential
  - Not available
- O Biodegration
  - Not available

### 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.

# B. Special precautions for disposal

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

## 14. TRANSPORT INFORMATION

### A. UN No. (IMDG CODE/IATA DGR)

- 1268

### B. Proper shipping name

- PETROLEUM DISTILLATES, N.O.S. OR PETROLEUM PRODUCTS, N.O.S.

#### C. Hazard Class

- 3

# D. IMDG CODE/IATA DGR Packing group

- П

## E. Marine pollutant

- 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.
- EmS FIRE SCHEDULE: F-E (Non-water-reactive flammable liquids)
- EmS SPILLAGE SCHEDULE: S-E (Flammable liquids, floating on water)

### 15. REGULATORY INFORMATION

#### A. National and/or international regulatory information

- O POPs Management Law
  - Not applicable
- O Information of EU Classification
  - \* Classification
    - [Naphtha (petroleum), hydrotreated light]: H350, H340, H304
- O 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
- O Rotterdam Convention listed ingredients
  - Not applicable
- O Stockholm Convention listed ingredients
  - Not applicable
- O 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 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

2019-11-22

### C. Revision number and Last date revised

Revision number : 0

Last date revised: 2019-11-22

## D. Other

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