

SECTION I : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

• GHS product identifier

Name

MKOREZ[®] LP-9800S

Chemical family

Hydrocarbons, C9-Unsaturated, Polymerized

Cas number

64742-16-1

• Recommended use of the chemical and restrictions on use:

Recommended use

Additive for adhesives, paints, coatings, inks

Restrictions on use

None known

• Manufacturer/importer/supplier information

Supplier name

KOLON INDUSTRIES

Address

9th FL, One&Only tower, Magokdong-ro 110,
Gangseo-gu, Seoul, KOREA (07793)

Telephone / Fax

(82) 2 3677 6121 / (82) 2 3677 6191

• Emergency telephone

Health, Safety & Environmental information

(82) 2 3677 6121

SECTION 2 : HAZARDS IDENTIFICATION

• Classification

ANNEX I OF DIRECTIVE 67/548/EEC

Not classified

(EC) NO 1272/2008 [CLP]

H317 May cause an allergic skin reaction

H412 Harmful to aquatic life with long lasting effects

• **Label elements**

Hazard Pictograms

GHS07



Signal Word

warning

Hazard Statements

H317 May cause an allergic skin reaction

H412 Harmful to aquatic life with long lasting effects

Additional Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P305+P351+P338 IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, If present and easy to do. Continue rinsing.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Label elements**

None known

SECTION 3 : COMPOSITION, INFORMATION ON INGREDIENTS

Component	Cas number	EC NO	Weight % range
Hydrocarbons, C9-unsaturated,polymerized	64742-16-1	615-276-3	100

SECTION 4 : FIRST AID MEASURES

• **Description of first aid measures**

After eye contact

Flush eyes with amount of water for at least 15 minutes.

Get medical attention immediately.

After skin contact

Get medical attention if needed.

Dry and wash thoroughly contaminated clothing and shoes before reuse.

Remove contaminated clothing and shoes.

Wash immediately skin with soap and water for at least 15 minutes.

After inhalation

Give artificial respiration if victim is not breathing.

Move victim to non-contaminated place if side effect occurred.

Get medical attention immediately.

After ingestion

Get medical attention if swallowed amount of substances.

• **Most important symptoms and effects both actue and delayed effects**

Burns should be treated as thermal burns. The material will come off as healing occurs.
Therefore, immediate removal from the skin is not necessary.

• **Indication of immediate medical attention and notes for physician**

Hazards

Contact with molten substance/product may cause severe burns to skin and eyes.

Treatment

Treat syptomatically.

SECTION 5 : FIRE FIGHTING MEASURES

• **Extinguishing media**

Suitable extinguishing media

Dry chemical, CO₂, water spray

Unsuitable extinguishing media

Not available

• **Specific hazards arising from the substance of mixture**

Thermal decomposition products

Carbon oxides, nitrogen oxides

Fire and explosive hazard

It could be a slight fire hazard.

• **Advice for firefighters**

Move containers from fire area if you can do it without risks.
Do not scatter spilled material with high pressure water streams.
Mark an embankment for further processing.
Use extinguishing agent suitable for type of surrounding fire.
Avoid inhalation of the substance or combustion products.
Stay upwind and keep out of low areas.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

• Personal precautions, protective equipment and emergency procedures

Keep away from waterways and sewers.
Isolate exposed area.
Keep unauthorized personnel away.
Move materials to suitable containers for later disposal.

• Environmental precautions and protective procedures

Atmosphere

Not available

Land

Not available

Underwater

Do not release spillage into sewers.

• The methods and material for containment and cleaning up

Absorb with liquid-binding material(sand, diatomite, acid binders, universal binders, swadust)

• The methods and material for containment and cleaning up

See section 7 for information on safe handling
See section 8 for information on person protection equipment
See section 13 for information on disposal

SECTION 7 : HANDLING AND STORAGE

• Precautions for safe handling

Precautions against electrostatic charging.
Prevent skin and eye contact.
Avoid contact in the molten state by heat and vapor inhalation.

- **Conditions for safe storage, including any incompatibilities**

Keep container away from the sun.

Avoid contact with straight sunlight.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

- **Control parameters**

Components with limit values that require monitoring at the workplace

DNELs

OSHA

4mg/kg/d(general population)

Dermal

8 mg/kg/d (general population)

16.4 mg/kg/d (workers)

Inhalative

28 mg/m³ (general population)

57 mg/m³ (workers)

PNECs

PNEC STP

2.2 mg/L (.)

PNEC AQUA

54 µg/L (freshwater)

540 µg/L (intermittent releases)

5.4 µg/L (marine water)

PNEC SEDIMENT

1584 mg/kg(sed dm) (freshwater)

154 mg/kg(sed dm) (marine water)

PNEC SOIL

316.7 mg/kg (.)

- **Control parameters**

Individual protection measures, such as personal protective equipment

Respiratory protection

Atmospheric levels should be maintained below exposure limits

Use a niosh-msha approved respirator based on contamination levels in the workplace

Eye protection

Wear safety goggles

Hand protection

Wear chemical-protective gloves

Body protection

Wear appropriate protective clothing to prevent exposure of skin.

Environmental Exposure Controls

Not available

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

• **Apperance**

Description

Liquid

Color

Yellow

• **Odor**

Petrochemical odor

• **Ph**

Not applicable

• **Flash point**

>180°C

• **Flammability(solid, gas)**

Not available

• **Solubility(ies)**

In water

Insoluble

In organic solvent

Soluble

• **Tg**

-30~-40°C

• **Viscosity**

6,000~10,000 cps (25°C)

- **Molecular weight**
Approx. 300~400

- **Surface tension**
Not available

SECTION 10 : STABILITY AND REACTIVITY

- **Reactivity/Chemical stability/Possibility of hazardous reactions**
No dangerous reactions known
- **Condition to avoid**
No further relevant information available
- **Incompatible materials**
No further relevant information available
- **Hazardous decomposition products**
No dangerous decomposition products known

SECTION 11 : TOXICOLOGICAL INFORMATION

- **Information on toxicology effects**

Acute toxicity

Oral : LD50 >2,000mg/kg(rat) (OECD 423)
Dermal : LD50 >2,000mg/kg(rat) (OECD 402)
Inhalation : LC50 >5mg/L(rat) (OECD 403; Aerosol)

Skin corrosion/irritation

Following prolonged exposure irritation of skin is possible

Serious eye damage/irritation

Irritation of the mucous membranes is possible

Additional toxicological information

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Sensitisation

May cause sensitisation by skin contact.

SECTION 12 : ECOLOGICAL INFORMATION

• Toxicity

Acute Toxicity

Fish

LL50(96H) 25.8mg/L (fish) (OECD TG 203)

Daphnia

EL50(48H) 54mg/L (daphnia) (OECD TG 202)

Algae

EL50(72H) > 100mg/L (algae) (OECD TG 201)

Chronic Toxicity

Fish

Not available

Crustacea

Not available

Algae

Not available

• Persistence and degradability

Persistence

Not available

Degradability

Not available

• Bioaccumulative potential

Bioaccumulation

Not available

Biodegradation

Not available

• Mobility in soil

Not available

• Results of PBT and vPvB assessment

Not available

• Other hazard effects

Not available

SECTION 13 : DISPOSAL CONSIDERATIONS

- **Waste treatment methods**

- Recommendation

- Remove according to local authority recommendations.
e.g. convey to a suitable incinerator

- Precautions for disposal

- The waste code classification is to be carried out according to the european waste catalogue(EWC) specification for each branch of industry and each type of process.

SECTION 14 : TRANSPORT INFORMATION

- **UN number**

- Not applicable

- **UN proper shipping name**

- Not applicable

- **Transport hazard class**

- Not applicable

- **Packing group**

- Not applicable

- **Environmental hazards**

- Not applicable

- **Information note**

- In case of fire

- Not applicable

- In case of leakage

- Not applicable

- **Transport in bulk according to ANNEX II MARPOL 73/78 and the IBC code**

- Not applicable

SECTION 15 : REGULATORY INFORMATION

- **Safety, health and environmental regulations/legislation specific for the labelling according Regulation(EC) No 1272/2008**

The substances is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07

Signal word

Warning

Hazard statements

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- **Chemical safety assessment**

A chemical safety assessment has not been carried out

SECTION 16 : OTHER INFORMATION

- **Indication of changes**

Version

Ver. 5

Revision date

November.4th.2020

- **Abbreviation and acronyms**

CLP=Classification labelling packaging regulation; regulation (EC) No 1272/2008

CAS No.=Chemical abstracts service number

DNEL=Derived no effect level

EC NUMBER=Einecs and elincs number(see also einecs and elincs)

EU=European union

OSHA=European agency for safety and health at work

PBT=Persistent, Bioaccumulative and toxic substance

PNEC(s)=Predicted no effect concentration(s)

REACH=Registration, evaluation, authorisation and restriction of chemicals regulations (EC)
No 1907/2006

SVHC=Substance of very high concern

vPvB=Very persistent and very bioaccumulative

- **Key literature reference and sources for data**

Korea occupational health&safety agency(MSDS)

<http://www.kosha.or.kr>

The product analysis conducted by research institute of KOLON INDUSTRIES, Inc.(chemical Korea testing and research institute for chemical industry skin irritation test data(TBH-000125, test method:the notice 1999 of korea food and drug administration Korea testing and research institute for chemical industry hazardous chemical substance analysis data

The msds data published by antioxidant manufacturer quantitative structure activity relation(QSAR)

International uniform chemical information database(IUCLID)
(<http://ecb.jrc.it/esis>)

- **Classification and procedure used to derive the classification for mixtures according to regulation (EC) No 1272/2008**

[CLP] : Not applicable

- **Relevant r-phrases and/or h-statements(number and full text)**

Not applicable

- **Training advice**

Do not handle until all safety precautions have been read and understood.

- **Further information**

This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

ANNEX TO THE SDS

Hikotack LP-9800S is not classified for human health or the environment, is not CMR and is not PBT or vPvB. An exposure assessment and the calculation of risk characterization ratios are therefore not required.

The information contained herein is to the best of our knowledge and belief accurate. Since MSDS is to provide information on the health/safety/environment to users of the substance, data written here do not mean to ensure properties of matter or spec.

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