

USA(Eng) ver.5 Revision date: 4th.Jan.2021

SECTION I: CHEMICAL PRODUCT AND COMPANY IDENDIFICATION

GHS product identifier

Name

MKOREZ® LP-9800

Chemical family

Petroleum hydrocarbon resin

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

Used for recommended use

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

US OSHA's Hazard Communication Standard 2012

Not classified

EL CLP (EC no.1272/2008)

Not classified

NFPA

Health = 1 Fire = 1 Reactivity = 0 (0 = No Hazard, 1 = Slight Hazard)

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SECTION 3: COMPOSITION, INFORMATION ON INGREDIENTS

Component	Cas number	Weight % range
Petroleum hydrocarbon resin	64742-16-1	100

SECTION 4: FIRST AID MEASURES

Eye contact

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

Get medical attention immediately.

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.

Inhalation

Give artificial respiration if victim is not breathing.

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

Get medical attention immediately.

Ingestion

Get medical attention if swallowed amount of substances.

Other notes for physician

There is not specific antidote. Take functionally measures according to symptoms.

SECTION 5: FIRE FIGHTING MEASURES

Suitable(and unsuitable) Extinguishing media

Suitable extinguishing media

Dry chemical, CO₂, water spray, regular foam

Unsuitable extinguishing media

Not available

In case of major fire and large quantities

Use regular extinguishing agent and fine water spray.

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Specific hazards arising from the chemical

Thermal decomposition products

Carbon oxides, nitrogen oxides

Fire and explosive hazard

It could be a slight fire hazard.

Special protective equipment and precautions for fire-fighters

Move containers from fire area if you can do it without risks.

Do not scatter spilled material with high pressure water streams.

Mank 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

Atomosphere

Not available

Land

Not available

Underwater

Do not release spillage into sewers.

The methods of purification and removal

Small spill

Dispose waste as waste synthesis resin(general waste).

Large spill

Collect and then recycle or dispose as a waste resin(general waste).

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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Prevent skin and eye contact

Avoid contact in the molten state by heat and vapor inhalation.

When static electricity generates, remove by grounding, cleaning work space, and using articles preventing electrification.

Conditions for safe storage

Store and use by regulation of central government and local self-government.

Avoid contact with straight sunlight.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Occupational exposure limits

OSHA

Not available

Biological exposure index

Not available

Korean occupation of safety and health regulation

Not available

Appropriate engineering controls

Provide local exhaust ventilation system or other engineering controls to keep the airborne concentrations of vapor below their respective threshold limit value.

Check legal suitability of exposure level.

Personal protective equipment

Respirator

Wear NIOSH or european standard EN 149 approved full or half face piece(with goggles) respiratory protective equipment when necessary.

Air respirator are required in case of high frequency use or severe exposure

Air-purifying respirator(high efficiency particulate absorber)

In case of unknown concentrations or urgent risk of life/health

Air-line mask(combination airline breathing mask)

Air-breathing apparatus(full facepiece)

Eye protection

Wear safety glasses(goggles) to protect eyes

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Hand protection

Wear appropriate protective gloves to prevent exposure of skin.

Body protection

Wear appropriate protective clothing to prevent exposure of skin.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Apperance

<u>State</u>

Liquid

Color

Dark yellow

Odor

Petrochemical odor

• Ph

Not applicable

Flash point

>180°C

Flammability

Not available

Solubility(ies)

Insoluble in water

Viscosity

6,000~10,000 cps(25°C)

Molecular weight

Approx. 300~400 (Mw)

SECTION 10: STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions

Stable under normal temperatures and pressures.

It will not occur polymerization reaction.

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Condition to avoid

Avoid heat, flames, sparks and other sources of ignition.

Incompatible materials

Strong oxidizing agent

• Hazardous decomposition products

Carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

• Information on the likely routes of exposure

Vapor by polymerization or decomposition may cause irritation of eyes, skin, throat and lung.

Information of health hazardous

Acute toxicity

Oral: Not classified LD50 = 7,000mg/kg(rat)

Dermal : not classified Inhalation : not classified Skin corrosion/irritation

KIII COITOSIOII/IITIlalic

Not classified

Skin irritation test: not irritative based on primary irritation index = 0)

Serious eye damage/irritation

Not classified (Not available)

Respiratory sensitizer

Not available

Skin sensitization

Not classified (Not available)

Carcinogenicity

Not available

IARC : not available NTP : not available OSHA : not available WISHA : not available ACGIH : not available

Mutagenicity

Not classified (Not available)

Reproductive toxicity

Not classified (Not available)

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Specific target organ toxicity(single exposure)

Not classified (Not available)

Specific target organ toxicity(repeat exposure)

Not classified (Not available)

SECTION 12: ECOLOGICAL INFORMATION

Ecological toxicity

Fish

Not classified (Not available)

Crustacea

Not classified (Not available)

Algae

Not classified (Not available)

Persistence and degradability

Persistence

Not available

Degradability

Not available

Bioaccumulative potential

Bioaccumulation

Not available

Biodegradation

Not available

Mobility in soil

Not available

Other hazard effects

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal method

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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Disposal precaution

Consider the require attentions in accordance with waste treatment management regulation.

SECTION 14: TRANSPORT INFORMATION

UN number

Not applicable by IATA regulation

• UN proper shipping name

Not applicable by IATA regulation

Transport hazard class

Not applicable by IATA regulation

Packing group

Not applicable by IATA regulation

Marine pollutant

Not applicable by IATA regulation

Information note

In case of fire

Not applicable by IATA regulation

In case of leakage

Not applicable by IATA regulation

SECTION 15: REGULATORY INFORMATION

• EU classification

Classification

Not available

Risk phrases

Not available

Safety phrases

Not available

EU RoHS Regulation(DIRECTIVE 2002/96/EC)

The four heavy metals and brominated flame retardants were not detected.

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U.S.A Management information

OSHA(29CFR1910.119)

Not regulated

CERCLA 103(40CFR302.4)

Not regulated

EPCRA 302(40CFR355.3)

Not regulated

EPCRA 304(40CFR355.4)

Not regulated

EPCRA 313(40CFR372.65)

Not regulated

Sara classification

SARA hazard categories, SARA sections 311/312(40CFR370.21) : none SARA section 313(40CFR372.65) : none

Substance of Roterdame protocol

Not regulated

Substance Stockholme protocol

Not regulated

Substance of Montreal protocol

Not regulated

Inventory status

Country	Inventory	status
United states	TSCA	listed
Canada	DSL	listed
Europe	EINECS	listed
Australian	AICS/NICNAS	listed
Japan	MITI	listed
Korea	KECI	listed
Philippines	PICCS	listed
China	IECSC	listed

SECTION 16: OTHER INFORMATION

Information source and references

Korea occupational health&safety agency(SDS)

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(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 sds data published by antioxidant manufacturer

Chemical risk information platform(CHRIP) - (http://www.safe.nite.go.jp/english/db.html) Quantitative structure activity relation(QSAR)

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

Issuing date

12 December 2013

Revision number

Revision number 5th

The information contained herein is to the best of our knowledge and belief accurate. Since sds 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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