

This safety data sheet was created pursuant to the requirements of :
Safety data sheet according to Regulation (EC) 2020/878

Revision date : 22.April.2024
Revision Number :14
(replaces version 13)

SECTION I : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier name of the product

Substance Name

SUKOREZ[®] SU-100S

Chemical family

Hydrogenated hydrocarbon resin

CAS number

69430-35-9

UFI Code

Not applicable

1.2 Relevant identified uses of the substance or mixture and uses advised against :

Relevant identified uses

Additive for adhesives, paints, coatings, inks

Uses advised against

Used for recommended use.

1.3 Details of the supplier of the safety data sheet

Company Name

KOLON INDUSTRIES

Address

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

Telephone / Fax

(82) 2 3677 6124 / (82) 2 3677 6191

E-mail address

jhcho@kolon.com

REACH Only Representative

RSI ChemRep Europe Ltd.

Address

Merchants House, 27-30 Merchants Quay, Dublin 8,

Telephone / Fax

(44) 1233 969 972

E-mail address

OR@rsireg.com

1.4 Emergency telephone

For emergency health, safety & environmental information

(82) 2 3677 6124

SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Not classified

2.2 Label elements

Not applicable

2.3 Other hazards

According to Annex XIII, the substance does not meet PBT or vPvB criteria.

According to Regulation(EU) 2017/2100 and 2018/605, the substance does not affect to endocrine system.

The substance is not listed in Article 59

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Component	CAS number	Weight % range	Classification according to Regulation (EC) No 1272/2008	SCL / ATE / M-factor
Hydrogenated hydrocarbon resin	69430-35-9	>99.2	Not classified	-
Stabilizer	Proprietary	<0.8	Not classified	-

3.2 Mixtures

Not applicable

SECTION 4 : FIRST AID MEASURES

4.1 Description of first aid measures

General notes

Not available

Following inhalation

Give artificial respiration if victim is not breathing.
Move victim to non-contaminated place if side effect occurred.
Get medical attention immediately.

Following 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.

Following eye contact

Flush eyes with amount of water for at least 15 minutes.
Get medical attention immediately.

Following ingestion

Get medical attention if swallowed amount of substances.

Self-protection of the first aider

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

4.2 Most important symptoms and effects, both acute and delayed

Not available

4.3 Indication of any immediate medical attention and special treatment needed

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves

SECTION 5 : FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Dry chemical, CO₂, water spray, regular foam

Unsuitable extinguishing media

Not available

5.2 Specific hazards arising from the substance or mixture

Thermal decomposition products

Carbon oxides, nitrogen oxides
It could be a slight fire hazard.

5.3 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.
Bank 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

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Not available

Emergency procedures

Not available

For emergency responders

Keep away from waterways and sewers.

Isolate exposed area.

Keep unauthorized personnel away.

Move materials to suitable containers for later disposal.

6.2 Environmental precautions

Atmosphere

Not available

Land

Not available

Underwater

Do not release spillage into sewers.

6.3 Methods and material for containment and cleaning up

For containment

Not available

For cleaning up

Small spill

Dispose waste as waste synthesis resin(general waste).

Large spill

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

Other information

Not available

6.4 Reference to other sections

See also section 8 and 13 of the safety data sheet.

SECTION 7 : HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Prevent skin and eye contact

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

Measures to prevent fire

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

Measures to prevent aerosol and dust generation

Not available

Measures to prevent the environment

Not available

Advice on general occupational hygiene

Not available

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Avoid contact with straight sunlight.

Packaging materials

Not available

Requirements for storage rooms and vessels

Minimize generation and accumulation of dust store in a cool, dry, well-ventilated area.

Storage class

Further information on storage conditions

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

7.3 Specific end use(s)

Recommendations

Adhesive, paints, coatings, inks

Industrial sector specific solutions

Not available

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

Biological exposure index

Not available

OSHA

TWA - 5 mg/m³ (Respirable dust fraction)

NIOSH regulation

Not available

EU regulation

Not available

KOREAN occupation of safety and health regulation

Not available

8.2 Exposure controls

Appropriate engineering controls

Substance/mixture related measures to prevent exposure during identified uses

Not available

Structural measures to prevent exposure

Not available

Organisational measures to prevent exposure

Not available

Technical measures to prevent exposure

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 protection equipment

Eye and face protection

Wear safety glasses(goggles) to protect eyes from dust.

Skin protection

Hand protection

Wear appropriate protective gloves to prevent exposure of skin.

Body protection

Wear appropriate protective clothing to prevent exposure of skin.

Respiratory protection

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)

Thermal hazards

Not available

Environmental exposure controls

Substance/mixture related measures to prevent exposure

Not available

Instruction measures to prevent exposure

Not available

Organisational measures to prevent exposure

Not available

Technical measures to prevent exposure

Not available

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Physical state

Solid

b) Color

Water white

c) Odor

Odorless

d) Melting point/freezing point

97~106°C(Softening point)

e) Boiling point or initial boiling point and boiling range

Not available

f) Flammability

Not available

g) Upper/lower limit on flammability or explosive limits

Not applicable

h) Flash point

>270°C

i) Auto-ignition temperature

>400°C

j) Decomposition temperature

Not available

k) pH

Not available

l) Kinetic viscosity

Not applicable

m) Solubility

Insoluble

n) Partition coefficient n-octanol/water(Log Kow)

Not applicable

o) Vapor pressure

Not applicable

p) Density and/or relative density

1.07~1.10

q) Relative vapor density

Not applicable

r) Particle characteristics

Particle size : 3 - 7 MM

9.2 Other information

9.2.1 Information with regard to physical hazard classes

No additional information

9.2.2 Other safety characteristics

No additional information

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity

It will not occur polymerization reaction.

10.2 Chemical stability

Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

Not available

10.4 Condition to avoid

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

10.5 Incompatible materials

Strong oxidizing agent

10.6 Hazardous decomposition products

Carbon oxides, nitrogen oxides

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Oral : Not classified ATEmix = 6,977mg/kg

(Hydrogenated hydrocarbon resin : LD₅₀ = 7,000mg/kg(mammal))

(Stabilizer : LD₅₀>5,000mg/kg(rat))

Dermal : Not classified

(99.2% of this product consist of ingredients of unknown material)

(Hydrogenated hydrocarbon resin : Not available)

(Stabilizer : LD₅₀>3,160mg/kg(rabbit))

Inhalation(dust/mist) : Not classified

(99.2% of this product consist of ingredients of unknown material)

(Hydrogenated hydrocarbon resin : Not available)

(Stabilizer : LD₅₀(4hr)>1.95mg/(rat))

Skin corrosion/irritation

Not classified

(0.8% of this product consist of ingredients of unknown material)

(Hydrogenated hydrocarbon resin : Not classified)

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

(Stabilizer : Not available)

Serious eye damage/irritation

Not classified

(99.2% of this product consist of ingredients of unknown material)

(Hydrogenated hydrocarbon resin : Not available)

(Stabilizer : in test on eye irritation with rabbits, mild irritation was observed.)

Respiratory sensitization

Not available

Skin sensitization

Not classified

(99.2% of this product consist of ingredients of unknown material)

(Hydrogenated hydrocarbon resin : Not available)

(Stabilizer : The maximization test using guinea pigs resulted in negative.)

Carcinogenicity

Not available

EU CLP : Not available

IARC : Not available

NTP : Not available

OSHA : Not available

WISHA : Not available

ACGIH : Not available

Germ cell Mutagenicity

Not available

Reproductive toxicity

Not classified

(99.2% of this product consist of ingredients of unknown material)

(Hydrogenated hydrocarbon resin : Not available)

(Stabilizer : IN F2 reproductive toxicity test with rats for 10 months (dose : 0, 1,000, 3,000, 10,000ppm), NOAEL were 10,000 ppm.(GLP))

Specific target organ toxicity(single exposure)

Not available

Specific target organ toxicity(repeat exposure)

Not classified

(99.2% of this product consist of ingredients of unknown material)

(Hydrogenated hydrocarbon resin : Not available)

(Stabilizer : NOAEL=10,000ppm(250mg/kg dw/day). When beagles were exposed repeatedly at doses of 0, 1,000, 3,000 and 10,000 ppm for 90 days, any toxic effects were not observed at the highest dose of 10,000ppm(1,500mg/kg bw/day)

Aspiration hazard

Not available

11.2 Information on other hazards

Endocrine disrupting properties

According to Regulation(EU) 2017/2100 and 2018/605, the substance does not affect to endocrine system.

Other information

Not available

SECTION 12 : ECOLOGICAL INFORMATION

12.1 Toxicity

Acute(short-term) toxicity

Fish

Not classified

(99.2% of this product consist of ingredients of unknown material)

(Hydrogenated hydrocarbon resin : Not available)

(Stabilizer : 96hr LC₅₀>100mg/l)

Crustacea

Not classified

(99.2% of this product consist of ingredients of unknown material)

(Hydrogenated hydrocarbon resin : Not available)

(Stabilizer : 24hr LC₅₀>86mg/l (OECD TG 202, GLP))

Algae/aquatic plants

Not classified

(99.2% of this product consist of ingredients of unknown material)

(Hydrogenated hydrocarbon resin : Not available)

(Stabilizer : 72hr EC₅₀>100mg/l (DIRECTIVE 87/302/EEC, GLP))

Chronic(long-term) toxicity

Fish

Not available

Crustacea

Not available

Algae/aquatic plants

Not available

Other organisms

Not available

12.2 Persistence and degradability

Abiotic Degradation

Not available

Physical- and photo-chemical elimination

Not available

Biodegradation

Not available

12.3 Bioaccumulative potential

Partition coefficient n-octanol /water (log Kow)

Not available

Bioconcentration factor (BCF)

Not available

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

Not available

Surface tension

Not available

Adsorption/Desorption

Not available

12.5 Results of PBT and vPvB assessment

Not available

12.6 Endocrine disrupting properties

According to Regulation(EU) 2017/2100 and 2018/605, the substance does not affect to endocrine system.

12.7 Other adverse effects

Additional information

Not available

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste codes / waste designations according to LoW: 20 01 28

Waste treatment-relevant information

Waste must be disposed of in accordance with federal, state and local environ-

mental control regulations.

Sewage disposal-relevant information

Not available

Other disposal recommendations

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

SECTION 14 : TRANSPORT INFORMATION

14.1 UN number

Not applicable by IATA regulation

14.2 UN proper shipping name

Not applicable by IATA regulation

14.3 Transport hazard class(es)

Not applicable by IATA regulation

14.4 Packing group

Not applicable by IATA regulation

14.5 Environmental hazards

Not applicable by IATA regulation

14.6 Special precautions for user

In case of fire

Not applicable by IATA regulation

In case of leakage

Not applicable by IATA regulation

14.7 Maritime transport in bulk according to IMO instruments

Not applicable by IATA regulation

SECTION 15 : REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorization List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

United States inventory (TSCA)

All components are listed or exempted.

Canada inventory (DSL)

All components are listed or exempted.

China inventory (IECSC)

All components are listed or exempted.

Japan inventory (MITI)

All components are listed or exempted.

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory (PICCS)

All components are listed or exempted.

Europe (EINECS)

All components are listed or exempted.

Australian (AICS/NICNAS)

All components are listed or exempted.

Substance of roterdame protocol

Not regulated

Substance of stockholme protocol

Not regulated

Substance of montreal protocol

Not regulated

SARA classification

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

SARA section 313(40CFR372.65) : none

EU RoHS regulation(directive 2002/96/ec)

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

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

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16 : OTHER INFORMATION

16.1 Indication of changes

Revision Number

14

Revision date

22 April 2024

Issuing date

01 April 2004

Supersedes date

23 April 2023

16.2 Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]

PBT = Persistent, bioaccumulative and toxic

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

vPvB = Very Persistent and Very Bioaccumulative

SVHC = Substance of Very High Concern

TWA = time weighted average

EINECS = European Inventory of Existing Commercial chemical Substances

16.3 Key literature references and sources for data

Korea Occupational Health & Safety Agency(SDS) - (<http://www.kosha.or.kr>)
National Chemicals Information System - (<http://ncis.nier.go.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(2004), 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 Stabilizer manufacturer
EU CLP - (<https://echa.europa.eu/information-on-chemicals/cl-inventory-database>)
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)
American Conference of Governmental Industrial Hygienists TLVs and BEIs.
NIOSH Pocket Guide - (<http://www.cdc.gov/niosh/npg/npgdcas.html>)
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
(<http://monographs.iarc.fr>)
National Toxicology Program - (<http://ntp.niehs.nih.gov/results/dbsearch/>)
Guidance on using the European Waste Catalogue to code waste
(https://www.sepa.org.uk/media/163421/ewc_guidance.pdf)
TOMES-LOLI® - (<http://www.rightanswerknowledge.com/loginRA.asp>)

16.4 Wording of the H-statements in section 2 and 3

None

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.