

# SDS

(SAFETY DATA SHEET)

## KOLON INDUSTRIES

15th FL., KOLON TOWER , KOLON-RO 11,  
GWACHEON-CITY, GYEONGGI-DO, KOREA (427-709)

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REVISION DATE : 5/1/2015, VERSION 10.

### SECTION 1 : IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

#### GHS PRODUCT IDENTIFIER

Name

SUKOREZ SU-230

Chemical family

Hydrogenated hydrocarbon resin

Cas number

69430-35-9

#### 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

15th FL., Kolon tower , Kolon-ro 11,  
Gwacheon-city, Gyeonggi-do, KOREA (427-709)

Telephone / Fax

(82) 2 3677 6171 (82) 2 3677 6191

#### EMERGENCY TELEPHONE

Health, Safety & Environmental information

(82) 2 3677 6171

### SECTION 2 : HAZARDS IDENTIFICATION

#### CLASSIFICATION

OSHA 29 CFR 1910.1200

not classified

EU CLP 2008

not classified

#### NFPA

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

### SECTION 3 : COMPOSITION, INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS NUMBER</u>	<u>Weight % Range</u>
Hydrogenated hydrocarbon resin	69430-35-9	>99.2
Stabilizer	Proprietary	<0.8

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## **SECTION 4 : FIRST AID MEASURES**

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### **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**

Get medical attention if swallowed amount of substances.

### **OTHER NOTES FOR PHYSICIAN**

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

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## **SECTION 5 : FIRE FIGHTING MEASURES**

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### **SUITABLE(AND UNSUITABLE) EXTINGUISHING MEDIA**

#### **Suitable extinguishing media**

Dry chemical, CO<sub>2</sub>, 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.

### **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.

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## **SECTION 6 : ACCIDENTAL RELEASE MEASURES**

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### **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 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).

**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**

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

Avoid contact with straight sunlight.

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

**SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION**

**OCCUPATIONAL EXPOSURE LIMITS**

**OSHA**

TWA - 5 mg/m<sup>3</sup> (respirable dust fraction)

**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 from dust.

**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**

**APPEARANCE**

**State**

Solid

**Color**

White

**ODOR**

Odorless

**ODOR THRESHOLD**

Not detected

**Ph**

not applicable

**MELTING POINT/FREEZING POINT**

126~135°C (Softening point)

**INITIAL BOILING POINT AND BOILING RANGE**

not available

**FLASH POINT**

>270°C

**EVAPORATION RATE**

not applicable

**FLAMMABILITY(SOLID, GAS)**

not available

**UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS**

not available

(Dust explosiveness : minimum complexing energy (M.I.E TEST) <3mJ)

**VAPOR PRESSURE**

Not applicable

**SPECIFIC GRAVITY**

1.07~1.10

**PARTITION COEFFICIENT(n-OCTANOL/WATER)**

not applicable

**AUTO IGNITION TEMPERATURE**

400°C

**DECOMPOSITION TEMPERATURE**

not available

**VISCOSITY**

2,500 cps(180°C)

**MOLECULAR WEIGHT**

APPROX. 700(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.

**CONDITION TO AVOID**

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

## INCOMPATIBLE MATERIALS

Strong oxidizing agent

## HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides, nitrogen 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 ATEmix = 6,977mg/kg

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

(Antioxidant : LD50>5,000mg/kg(rat))

Dermal : not classified

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

(Petroleum hydrocarbon resin : not available)

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

Inhalation(dust/mist) : not classified

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

(Petroleum hydrocarbon resin : not available)

(Antioxidant : LD50(4hr)>1.95mg/(rat))

#### Skin corrosion/irritation

not classified

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

(Petroleum hydrocarbon resin : not classified)

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

(Antioxidant : not available)

#### Serious eye damage/irritation

not classified

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

(Petroleum hydrocarbon resin : not available)

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

#### Respiratory sensitizer

not available

#### Skin sensitization

not classified

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

(Petroleum hydrocarbon resin : not available)

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

#### Carcinogenicity

not available

IARC : not available

NTP : not available

OSHA : not available

WISHA : not available

ACGIH : not available

#### Mutagenicity

not available

**Reproductive toxicity**

not classified

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

(Petroleum hydrocarbon resin : not available)

(Antioxidant : 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 toxicity)

(Petroleum hydrocarbon resin : not available)

(Antioxidant : 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

**SECTION 12 : ECOLOGICAL INFORMATION**

**ECOLOGICAL TOXICITY**

**Fish**

not classified

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

(Petroleum hydrocarbon resin : not available)

(Antioxidant : 96hr LC50>100mg/l)

**Crustacea**

not classified

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

(Petroleum hydrocarbon resin : not available)

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

**Algae**

not classified

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

(Petroleum hydrocarbon resin : not available)

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

**PERSISTENCE AND DEGRADABILITY**

**Persistence**

Not readily degradable. And there were persistence possibility with insoluble.

(Petroleum hydrocarbon resin : not available)

(Antioxidant : log Kow=23(25 °C) (DIRECTIVE 84/449/EEC, A6, GLP))

**Degradability**

not available

**BIOACCUMULATIVE POTENTIAL**

**Bioaccumulation**

not available

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

(Petroleum hydrocarbon resin : not available)

(Antioxidant : Bioaccumulative potential is low as a bioconcentration factor at 0.1mg/l based on the bioaccumulative test using carp(cyprinus carpio) (bcf<2.3))

**Biodegradation**

Non-biodegradable

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

(Antioxidant : degraded 0% in the biodegradation test for 4 weeks.)

(OECD TG031C))

**MOBILITY IN SOIL**

not available

**OTHER HAZARD EFFECTS**

not available

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SECTION 13 : DISPOSAL CONSIDERATIONS  
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**DISPOSAL METHOD**

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

**DISPOSAL PRECAUTION**

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

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SECTION 14 : TRANSPORT INFORMATION  
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**UN NUMBER**

not applicable

**UN PROPER SHIPPING NAME**

not applicable

**TRANSPORT HAZARD CLASS**

not applicable

**PACKING GROUP**

not applicable

**MARINE POLLUTANT**

not applicable

**INPORMATION NOTE**

**In case of fire**

not applicable

**In case of leakage**

not applicable

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SECTION 15 : REGULATORY INFORMATION  
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**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.

#### 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

#### INVENTORY STATUS

**TSCA**(us toxic substances control act) : All components of this product are listed on the **TSCA** inventory.

**DSL**(canadian domestic substances list) : All components of this product are listed on the **DSL** inventory.

**EINECS**(European inventory of existing commercial chemical substances) : This product is listed on EINECS or otherwise complies with EINECS requirements.

**AICS/NICNAS**(Australian inventory of chemical substances and national industrial chemicals notification and assessment scheme) : All components of this product are listed on the **AICS** or otherwise comply with **NICNAS** inventory.

**MITI**(japanese handbook of existing and new chemical substances) : All components of this product are listed on the **MITI** inventory.

**KECI**(korean existing chemical and chemical substances) : All components of this product are listed on the **KECI** inventory.

**PICCS**(philippines inventory of chemical and chemical substances)

All components of this product are listed on the **PICCS** inventory.

**IECSC**(inventory of chemical substances manufactured or imported in china) :

All components of this product are listed on the **IECSC** inventory.

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#### **SECTION 16 : OTHER INFORMATION**

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#### INFORMATION SOURCE AND REFERENCES

Korea occupational health&safety agency(SDS)

(<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(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

M.I.E test report of chilworth in USA

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**

14 December 2004

**REVISION NUMBER AND DATE**

**Revision number**

10th

**Date of the lastest revision**

01 May 2015

**Reason for revision**

Classification and labelling of chemicals following GHS and following the notice about preparing of a safety data sheet.

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.