



# SDS Report

Report No.	WP-20042366-HJ-02-E
Sample Name	Epoxidized soybean oil
Client	Dongguan Raofeng Electric Co.,Ltd

Jiangsu Micro Spectrum Detection Technology Co., Ltd.



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Applicant : Dongguan Raofeng Electric Co.,Ltd  
No.34,Lane 11,Jin Xia Yi Fang,Changan Town,Dongguan

Manufacturer : Dongguan Raofeng Electric Co.,Ltd  
No.34,Lane 11,Jin Xia Yi Fang,Changan Town,Dongguan

Product Name : Epoxidized soybean oil

Model : /

Trade : /

This report is limited to the above applicant company and the product model only.

This Chemical Safety Technical Specification (SDS) only meets the local regulatory requirements and standards of the applicable regulation and may not meet the regulatory requirements of other countries.

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(Compiled according to the standards GB 13690-2009, GB/T 16483-2008, GB/T 17519-2013, GB/T 34714-2017)

## SECTION 1: IDENTIFICATION OF PRODUCT AND SUPPLIER

### 1.1 Product Identifiers

Product Name: Epoxidized soybean oil  
Batch: /

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

Identified uses: /  
Export to: /

### 1.3 Details of the supplier of the safety data sheet

Manufacturer: Dongguan Raofeng Electric Co.,Ltd  
Address: No.34,Lane 11,Jin Xia Yi Fang,Changan Town,Dongguan  
TEL: 18922945630 Fax: /  
E-Mail: zhangzheng917@126.com  
Emergency telephone number:  
Weekday: 18922945630  
Night & Holiday: 18922945630

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 GHS Risk Categories

Skin irritation (category 2)  
Eye irritation (category 2B)

### 2.2 GHS Label elements including precautionary statements

Pictograms:



Signal Word: Warning

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Risk description: H315 causes skin irritation.  
H320 causes eye irritation.

## 2.3 Precautionary Statements

Prevention:

P264 Clean thoroughly after work.

P280 Wear eye protection/ face protection.

Response:

P302 + P352 If skin contact: wash with plenty of soap and water.

P305 + P351 + P338 If in contact with eyes, rinse slowly and gently with water for a few minutes. If wear contact lens and can take out conveniently, take out contact lens, continue to rinse next.

P321 Specific disposition (see 4.1 on this MSDS).

P332 + P313 For skin irritation: seek medical attention.

P337 + P313 If eye irritation persists: seek medical attention.

P362 Remove soiled clothes and wash them before reuse.

Storage:

No information available

Disposal:

No information available

## 2.4 Hazards not otherwise classified

No information available

## 2.5 Other hazards

No information available

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substance or mixture

mixture

### 3.2 Information about the chemical nature of product

Common chemical name /general name	CAS number	EC Number	Concentration/Concentration range (%)
Linoleic acid	60-33-3	200-470-9	56
Oleic acid	112-80-1	204-007-1	36
Palmitic acid	57-10-3	200-312-9	2.7
Stearic acid	57-11-4	200-313-4	5.3

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## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

General Advice:	Consult a doctor. Present this safety instruction to the attending physician.
Eye contact:	In case of contact, immediately flush eyes Rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor.
Skin Contact:	Rinse with soap and plenty of water. Consult a doctor.
Inhalation:	If inhaled, remove victim to fresh air. If breathing has stopped, give artificial respiration. Consult a doctor.
Ingestion:	Never feed anything through the mouth to an unconscious person. Rinse your mouth with water. Consult a doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

Fire extinguishing method and extinguishing agent  
Use water mist, anti - ethanol foam, dry powder or carbon dioxide to extinguish fire.

### 5.2 Unsuitable extinguishing

High volume water jet

### 5.3 Special hazards arising from the substance or mixture

Carbon oxide

### 5.4 Advice for firefighters

If necessary, wear a self-contained breathing apparatus to fight fires.

### 5.5 Further information

No data available

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions protective equipment and emergency procedures  
Use personal protective equipment. Avoid breathing in vapors, smoke or gases.  
Ensure adequate ventilation.
- 6.2 Environmental precautions  
Don't let the product go down the drain.
- 6.3 Methods and materials for containment and cleaning up  
Inert adsorption materials are used to absorb and treat as hazardous waste. Place in a suitable closed container for processing.
- 6.4 Reference to other sections  
See Section 13 for disposal information.

## SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling  
Avoid contact with skin and eyes. Avoid breathing in steam and smoke.  
General fire protection measures.
- 7.2 Conditions for safe storage, including any incompatibilities  
Store in the shade. Keep container airtight and store in a dry and ventilated place.  
Recommended storage temperature: 2-8 °C
- 7.3 Specific end use(s)  
No data available

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters  
No data available
- 8.2 Exposure controls  
Appropriate technical controls  
Operate according to good industrial hygiene and safety practices. Wash your hands before rest and at the end of work.  
Personal protective equipment  
Eye/face protection:

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Safety glasses with protective edging are required to comply with EN166. Please use equipment tested and approved by official standards such as NIOSH (USA) or EN166 (eu) for eye protection.

Skin protection:

Gloves must be inspected before use.

Please use proper method to remove gloves (do not touch the outer surface of gloves) and avoid any skin contact with this product.

Please handle contaminated gloves carefully after use according to relevant laws and regulations and effective laboratory procedures. Wash and blow-dry your hands. The protective gloves selected must comply with EU 89/686/EEC requirements and EN 376 derived from them.

Full contact:

Material: nitrile rubber

The minimum layer thickness is 0.4mm

Solvent penetration time: 480 min

Tested substance Camatril® (KCL 730 / Z677442, specification M)

Splash protection:

Material: nitrile rubber

The minimum layer thickness is 0.2mm

Solvent penetration time: 30 min

Tested substance Dermatril® P (KCL 743 / Z677388, specification M), test method EN374 if applied in solvent form or in combination with other substances, or under conditions other than those prescribed by EN374, please contact the supplier of EC approved gloves.

This recommendation is only advisory and must be evaluated and confirmed by an industrial hygiene specialist who is familiar with the specific conditions our customers plan to use.

Body protection:

The type of impermeable clothing and protective equipment must be selected according to the concentration and amount of hazardous material in a particular workplace.

Respiratory protection:

If a hazard assessment indicates that air purification is required for a gas mask, use a full hood multifunction gas mask (US) or an ABEK type (EN 14387) gas mask cartridge as an alternate for engineering control. If a gas mask is the only way to protect, use a full hood air supply gas mask. Respirators use respirators and parts that have been tested and passed government standards such as NIOSH (US) or

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CEN (EU).

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a, appearance No data available

b, color Light yellow liquid

c, odor Nonpungent odor

d, pH No data available

e, Melting point/freezing point: No data available

f, Initial boiling point and boiling range: No data available

g, Flash point : No data available

h, Kinematic viscosity : No data available

i, Flammability : No data available

j, Explosive properties : No data available

k, Upper/lower limit of explosion No data available

l, Vapour pressure(at 20°C) : No data available

m, Vapour density : No data available

n, Density/relative density: No data available

o, Water solubility : No data available

p, Partition coefficient n-octanol/water No data available

q, Auto-ignition temperature : No data available

r, Decomposition temperature : No data available

s, Oxidizing properties : No data available

t, The evaporation rate : No data available

### 9.2 Other safety information



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No data available

## SECTION

### STABILITY AND REACTIVITY

#### 10:

##### 10.1 Reactivity

No data available

##### 10.2 Chemical Stability

No data available

##### 10.3 Possibility of hazardous reactions

No data available

##### 10.4 Conditions to avoid

No data available

##### 10.5 Incompatible materials

Strong oxidizing agents.

##### 10.6 Hazardous decomposition products

No data available

## SECTION

### TOXICOLOGICAL INFORMATION

#### 11:

##### 11.1 Information on toxicological effects

No data available

Acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitisation No data available

Germ cell mutagenicity No data available

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Carcinogenicity No data available

Reproductive toxicity No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

11.2 Additional instructions

Registration of toxic effects of chemical substances : RG2275000

## SECTION

### ECOLOGICAL INFORMATION

#### 12:

- |      |                                      |  |
|------|--------------------------------------|--|
| 12.1 | Toxicity:                            | Toxicity to fish at half lethal concentration (LC50) - fat-head minnows (minnows) - 205 mg/ l-96 h |
| 12.2 | Persistence and degradability :      | No data available  |
| 12.3 | Bio biodegradability :               | No data available  |
| 12.4 | Mobility in soil :                   | No data available  |
| 12.5 | Results of PBT and vPvB assessment : | No data available  |
| 12.6 | Other adverse effects :              | No data available  |

## SECTION

### WASTE TREATMENT METHODS

#### 13:

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by the regulation. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, law requires disposal at a licensed hazardous waste disposal facility.

Product: Dispose of the remaining and non-recyclable solution to a licensed company.

Contaminated packaging: Contact a professional organization with a waste disposal license to dispose of the substance.

Return the container to the manufacturer or dispose of it in accordance with national and local regulations.

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Discard notes: Refer to national and local regulations before disposal.  
See part 8 for safety precautions for handling personnel.

## SECTION

### TRANSPORT INFORMATION

#### 14:

##### 14.1 UN Number

ADR/RID: -

IMDG: -

IATA-DGR: -

##### 14.2 UN proper shipping name

ADR/RID: Non-dangerous goods

IMDG: Non-dangerous goods

IATA-DGR: Non-dangerous goods

##### 14.3 Transport hazard class(es):

ADR/RID: -

IMDG: -

IATA-DGR: -

##### 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA-DGR: -

##### 14.5 Environmental hazards

ADR/RID: No

IMDG: No

IATA-DGR: No

##### 14.6 Transportation precautions

The transport vehicle shall be equipped with the corresponding variety and quantity of fire equipment and leakage emergency treatment equipment.

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Do not mix with oxidants, edible chemicals, etc.

The exhaust pipe of the vehicle carrying the item must be equipped with fire resistance device.

There should be grounding chain when the tank (tank) car is used for transportation, and a hole partition can be set in the tank to reduce the static electricity generated by the shock.

Do not use the machinery equipment and tools which are easy to produce spark loading and unloading.

It is best to ship early and late in summer.

During transportation, we should prevent exposure to the sun, rain and high temperature.

When stopping over, stay away from fire, heat source and high temperature area.

Road transport should follow the prescribed route, do not stay in residential areas and densely populated areas.

It is forbidden to slip away during railway transportation.

It is strictly prohibited to transport in bulk by wooden or cement vessels.

Dangerous signs and notices shall be posted on the means of transport according to the relevant transport requirements.

## SECTION

### REGULATION INFORMATION

#### 15:

- 15.1 Safety, health and environmental regulations/legislation specific the substance or mixture  
X=list

Component	hazardous chemicals Director y (2015 Edition)	List of dangerous goods - 2012 Edition	Taiwan - list of toxic chemicals	IEC SC	EINE CS	TSC A	DSL	PICS	ENC S	AICS	KE CL
oleic acid	-	-	x	x	204-07-1	X	X	X	X	X	X
linoleic acid	-	-	x	x	200-470-9	X	X	X	X	X	X

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## 15.2 Chemical safety assessment

Please note that waste disposal should also meet local regulatory requirements.

## SECTION

### OTHER INFORMATION

#### 16:

##### 16.1. date of preparation or last revision

Issued date August 25, 2020

##### 16.2. The date of preparation of the SDS or the last change to it.

Preparation date August 25, 2020

Edit information New Edit, Revised

Current version 1.0

##### 16.3. Other information

Notice to reader  
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.  
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other information  
ACGIH: (American Conference of Governmental Industrial Hygienists);  
BCF: (Bioconcentration Factor);  
BOD: (Biochemical oxygen demand);  
CAS: (Chemical Abstracts Service);  
DSL: (the Domestic Substances List of Canada);  
EC: (European Commission);  
EC50: (Median effective concentration);  
ENCS(MITI No.): (Existing and New Chemical Substances of Japan);  
IARC: (International Agency for Research on Cancer);  
IATA: (International Air Transport Association);  
IECSC: (Inventory of Existing Chemical Substances in China);  
LC50: (Lethal concentration, 50 percent kill);  
LD50: (Lethal dose, 50 percent kill);  
NDSL: (the Non-domestic Substances List of Canada);  
NIOSH: (US National Institute for Occupational Safety and Health);  
NOEC: (No observed effect concentration );  
NTP: ( US National Toxicology Program);  
OSHA: (US Occupational Safety and Health);  
PC-STEL: (Permissible concentration-time weighted average);  
PC-TWA: (Permissible concentration-short time exposure limit);

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PEL: (Permissible Exposure Level); REL: (Recommended Exposure Limit);  
RTECS: (Registry of Toxic Effects of Chemical Substances);  
STEL: (Short Term Exposure Limit);  
TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS  
Model Regulations);  
LV: (Threshold Limit Value)