

Safety Data Sheets

1. Product and Company Identification

Product name : Epoxy #910 Soft (Base)

Name of supplier : SOLAR CO., LTD.

Address : 1-7, Nunobiki-cho-2-chome, Chuo-ku, Kobe, Hyogo-Pref. 651-0097 JAPAN

Division : R & D DEPT.

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Product code(SDS NO) : EN500200-4

2. Hazards identification

GHS classification and label elements of the product

GHS classification

HEALTH HAZARDS

Skin corrosion/irritation : Category 2

Eye damage /eye irritation : Category 2

Skin sensitization : Category 1

Carcinogenicity : Category 2

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment-acute toxicity : Category 2

Hazardous to the aquatic environment-chronic toxicity : Category 2



Signal word : Warning

HAZARD STATEMENT

Causes skin irritation.

Causes eye irritation

May cause an allergic skin reaction

Suspected of causing cancer

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT

Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash contaminated parts thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves.

Wear face protection.

Use personal protective equipment as required.

Response

Take off contaminated clothing and wash before reuse.

Collect spillage.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

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

If eye irritation persists: Get medical advice/attention.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/national regulation.

3. Composition/Information on Ingredients

Substance/Preparation :Preparation

Ingredient name	content(%)	CAS No.	PRTR law No, Japan
Epoxy resin (Bisphenol F-epichlorohydrin polymer)	45 - 50 (40 - 45)	Non public (58421-55-9, 9003-36-5)	-
Bisphenol A, epichlorohydrin polymer	1 - 5	25068-38-6	-
Extender	25 - 30	Non Public	-
Titanium dioxide	15 - 20	13463-67-7	-
Silica	1 - 5	67762-90-7 7631-86-9	-
Additive	0.1 - 1	Non Public	-

4. First-aid measures

IF INHALED

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.

IF ON SKIN(or hair)

Never use solvent or thinner.

Wash with plenty of soap and water.

If you observe unusual symptom, have irritation/pain and/or feel unwell, seek medical advice.

IF IN EYES :

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor/physician.

5. Fire-fighting measures

Suitable extinguishing media

In case of fire, use water mist, foam, dry powder or CO2.

Specific fire-fighting measures

Use appointed fire extinguisher.

Remove flammable matters quickly from nearby.

Apply water from a safe distance to cool and protect surrounding area.

Special protective equipment and precautions for fire-fighters

Fire extinguishing work has to be done from windward.

Wear proper protective equipment.

6. Accidental Release Measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear proper protective equipment.

Keep unauthorized personnel away.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Methods and materials for neutralization, containment and cleaning up

Place in a covered container.

Use non-sparking tools to collect absorbed material.

Preventive measures for secondary accident

Prepare extinguishers before catching fire.

7. Handling and Storage

Precautions for safe handling

Preventive measures

Use personal protective equipment as required.

Take precautionary measures against static discharge.

Safety Measures/Incompatibility

Handle in good ventilation.

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

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Keep container tightly closed.

Protect from sunlight. Store in a well-ventilated place.

8. Exposure Controls/Personal Protection

Control parameters e.g. occupational exposure limit values or biological limit values

Adopted value

(Titanium dioxide)

ACGIH(1992) TWA: 10mg/m³ (LRT irr)

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Exhaust/ventilator should be available.

Protective equipment

Respiratory protection

Wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective gloves/clothing

9. Physical and Chemical Properties

Physical properties

Appearance :paste

Color :white

Flash point :No data

Specific gravity :ca 1.36

10. Stability and Reactivity

Stability

Stable under normal storage/handling conditions.

11. Toxicological Information

Symptoms related to the physical, chemical and toxicological characteristics

Irritant properties

Skin corrosion/Irritation component(s) data

(Titanium dioxide)
 human 0.3mg/3D-I ; MILD

Carcinogenic effects

(Titanium dioxide)
 IARC-Gr.2B ; Possibly carcinogenic to humans.
 (Amorphous silica)
 IARC-Gr.3 ; Not Classifiable as a Human Carcinogen.
 (Titanium dioxide)
 ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen

12. Ecological Information

Ecotoxicity

Aquatic toxicity

Toxic to aquatic life
 Toxic to aquatic life with long lasting effects
 (Titanium dioxide)
 Crustacea (Daphnia magna) EC50 > 1000mg/L/48hr (AQUIRE, 2003)
 (Bisphenol A, epichlorohydrin polymer)
 Crustacea (Daphnia magna) EC50=1.7mg/L/48hr (CERI/NITE, 2006)

Water solubility

(Titanium dioxide)
 none (HSDB, 2004)
 (Bisphenol A, epichlorohydrin polymer)
 0.0000041 g/100 ml (CERI/NITE hazard evaluation data, 2006)

Persistence and degradability

(Bisphenol A, epichlorohydrin polymer)
 BOD_Degradation : 0% (Registered chemicals data check & review, Japan)

Bioaccumulative potential

(Bisphenol A, epichlorohydrin polymer)
 BCF <= 42 (Check & Review, Japan)

13. Disposal Considerations

Disposal methods

Avoid release to the environment (- if this is not the intended use).
 Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

UN No, UN CLASS

UN No :No data

Sea pollutant

Sea pollutants control law

Noxious Liquid ; Cat. X :Bisphenol F-epichlorohydrin polymer, Bisphenol A, epichlorohydrin polymer
 Noxious Liquid ; Cat. Z :Titanium dioxide

Special precautions in connection with transport or conveyance

Follow instruction in Handling & Storage.

15. Regulatory Information

Industrial Safety and Health law, Japan

Chemical name et al should be informed :Titanium dioxide;Silica
 Labor standard law, Japan; Toxic :Bisphenol A/F epoxy resin
 Labor standard law, Japan; Sensitizer :Bisphenol A/F epoxy resin
 Labor safety and hygiene control law, Japan; Mutagenic existing chemicals :Epoxy resin
 intermediate

Fire protection law, Japan

Listed flammables : flammable solids ; (limited qty) 3000kg
Chemical Substances Control Law, Japan
Priority Assessment Chemical Substances :Bisphenol A epoxy resin

16. Other information

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (4th ed., 2011), UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 17th edit. UN
2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)
2011 TLVs and BEIs. (ACGIH)
<http://monographs.iarc.fr/monoeval/grlist.html>
Supplier's data/information

Other information

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