

Material Safety Data Sheet

SR-1050W

Revision No. : 1
Date of Issue: 2017/02/04

1. Chemical Product and Company Identification

1.1 Trade Name SR-1050W

1.2 Product application and restriction

Identified uses(s) Waterborne epoxy resin

Restricted Use No data

2. Hazards Identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to the Regulation (EC) No. 1272/2008 [CLP/GHS-EU]

Skin corrosion/irritation : Category 2
Respiratory or Skin Sensitization : Category 1
Serious Eye Damage/Irritation : Category 2
Hazardous to the aquatic environment, chronic hazard : Category 2

2.1.2 Classification according to EU Directives 67/548/EEC or 1999/45/EC

Harmful if swallowed. Causes severe skin burns and eye damage. May cause and allergic skin reaction. Fatal if inhaled. Toxic to aquatic life with long lasting effects.

2.2 Label Elements

2.2.1 Hazards Pictogram and Classification

Hazard Pictogram(s)



Signal Word(s)

Warning

Hazards Classification and Statements

H315 : Causes skin irritation.
H317 : May cause and allergic skin reaction.
H319 : Causes serious eye irritation.
H411 : Toxic to aquatic life with long lasting effects.

Prevention Precautionary statements

P272 : Contaminated work clothing should not be allowed out of the workplace.
P280 : Wear protective gloves/protective clothing/eye protection/face protection.

Response statements

P302 + P352 : IF ON SKIN: wash with plenty of soap and water.
P321 : Specific treatment (see ... on this label).
P333 + P313 : IF SKIN irritation or rash occurs: Get medical advice/attention.
P363 : Wash contaminated clothing before reuse.

Storage statements

No data available.

Disposal statements

P501 : Dispose of contents/container in accordance with local/regional/national/international regulation

2.2.2 According to European Directive 67/548/EEC as amended

Hazard symbol(s)



Hazard Code(s)

Xi, N

R-phrase(s)

R36 : Irritating to eyes.

R38 : Irritating to skin.

R43 : May cause sensitization by skin contact.

R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical

S36 : Wear suitable protective clothing.

S37 : Wear suitable gloves.

3. Composition/information on ingredients

Component (CAS No. /EC No.)	Amount (%)	Classification	
		67/548/EEC	Regulation (EC) No. 1272/2008 [CLP/GHS]
4,4'-(1-Methylethylidene)bisphenol polymer with 2,2'-[(1- methylethylidene)bis(4,1- phenyleneoxymethylene)]bis[oxirane] (25036-25-3 / 607-500-3)	>40 - <50	H315, H317, H319, H411	R36, R38, R41, R51/53
Water (7732-18-5 / 231-791-2)	>40 - <50	No data available.	No data available.
Others	>1 - <10	No data available.	No data available.

4. First aid measures

4.1 Eye contact

Rinse immediately with plenty of water for at least 15 minutes or until the chemical has been removed. Obtain medical attention immediately.

4.2 Skin contact

Remove contaminated clothing and shoes without delay. Wash immediately with plenty of water.
Do not reuse contaminated clothing without laundering. Get medical attention if pain or irritation persists after washing or if signs and symptoms of overexposure appear.

4.3 Inhalation

Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.

4.4 Ingestion

If swallowed, call a physician immediately, Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

4.5 Other Aid Measures

Contact physician and get proper medical treatment if you feel unwell.

5. Fire fighting measures

5.1 Suitable Extinguishing media

Use water spray, carbon dioxide or dry chemical to extinguish fires.

5.2 Unusual hazardous may produced by fire or explosion

May produce hazardous fumes of hazardous decomposition products.

5.3 Special fire fighting procedures and protection

When fire fighting, wear full protective equipment including self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions

Wear approved respirator, protective clothing and equipment suitable for level of exposure.

6.2 Environmental precautions

Avoid release to the environment.

Avoid release to waterway, drain, basement, closed place.

6.3 Methods for Cleaning up

Cover spills with some inert absorbent material : sweep up and place in a waste disposal container.

Remove sources of ignition.

7. Handling and storage

7.1 Handling

Avoid skin and eye contact.

Do not take internally.

Remove contaminated clothing immediately.

Wash after handling, especially before eating, drinking or smoking.

7.2 Storage

Store at 5~30°C. Keep container tightly closed in a cool, well-ventilated place.

Store in tightly closed containers in a properly vented storage area away from direct sunlight.

8. Exposure controls/personal protection

8.1 Chemical/Biological Exposure Limits

Not available

8.2 Suitable Engineering Management

Use process isolation, local ventilation or other engineering management to maintain air quality under exposure limits.

Set wash up facilities and safe shower system, where storage or use of this material.

8.3 Suitable Personal Protection

Eye/face protection

Use equipment for eye protection tested and approved under government standards such as NIOSH (US) or EN 167(EU).

Hands protection

Chemical resistant gloves.

Skin and body protection

Chemical resistant protective suit. Chemicals resistant boots.

Respiratory protection

For operations where inhalation exposure can occur, use an approved respirator recommended by an industrial hygienist after an evaluation of the operation. Where inhalation exposure cannot occur, no respiratory protection is required. A full face piece respirator also provides eye and face protection.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Feature Liquid

Color white

Odor Odorless

Threshold concentration of Odor No data

pH 6.0 – 8.0

Melting Point/Freezing Point 0°C (water)

Initial Boiling Point/Range 100°C (water)

Flash Point No data

Evaporation Rate No data

Flammability No data

Flammable/Explosion Limits No data

Vapor Pressure No data

Solubility in WATER No data

Vapor density No data

Density No data

n-Octanol/Water Partition coefficient No data

Autoignition Temperature No data

Decomposition Temperature No data

Viscosity(at 25°C) >2,000 – <7,000 cps

Molecular Weight (Mn) No data

9.2 Other Information No data

10. Stability and reactivity

10.1 Chemical Stability (and possibility of hazardous reaction.)

Stable at normal temperature and pressure.

10.2 Conditions to avoid

Avoid contact with heat, flame, spark and other igniter.

Hazardous polymerization can occur when exposed to direct sunlight.

Hazardous exothermic polymerization can occur when heated.

10.3 Materials to avoid

Radical forming initiators, peroxides, strong alkalis or reactive metals to prevent exothermic polymerization.

10.4 Hazardous decomposition component

No data

11. Toxicological information

11.1 Potential health effects No data

11.2 Acute Toxicity Data

Acute Toxicity

Oral No data

Dermal No data

Inhalation No data

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Irritation Category 2

Respiratory or Skin Sensitization Category 1

Carcinogenicity No data

Germ cell mutagenicity No data

Reproductive toxicity No data

Specific target organ toxicity

Single Exposure No data

Repeated Exposure No data

Aspiration hazard No data

12. Ecological information

12.1 Ecotoxicity

Fish toxicity (Acute): No data

Water flea toxicity (Acute): No data

Birds growth hinderance test (Acute): No data

12.2 Persistence and degradability

Persistence: No data

Degradability: No data

12.3 Bioaccumulative potential No data

12.4 Mobility No data

12.5 Other adverse effects No data

13. Disposal considerations

13.1 Procedure

Dispose of in accordance with local regulations.

13.2 Cautious

Dispose of in accordance with local regulations.

14. Transport information

UN Number	3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n. o. s.
Transportation Class	9
Packing Group (if applicable)	III
Marine Pollutant	Not applicable
Special precautions for user	Not applicable

15. Regulation information

15.1 INTERNATIONAL INVENTORY STATUS :

U. S. A. (TSCA)	Included on inventory
China (CECS)	Included on inventory
Europe (EINECS)	Included on inventory
Japan (ENCS)	Included on inventory
Korea (ECL)	Included on inventory

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

No data

15.3 Chemical Safety Assessment

No data

16. Other information

16.1 Reference

Korea Occupational Safety&Health Agency(KOSHA)
 Korea National Chemicals Information System(NCIS)
 USA EPA Substance Registry Service
 European Chemical Substance Information System(ESIS)
 European Chemicals Agency (ECHA)
 Chemical Risk Information Platform(CHRIP)

16.2 Initial Issuing date 2016/9/6

16.3 Revision No. and Revised date

Revision No.	2
Revised Date	2017/1/4
Revised Contents	Composition/information on ingredients

16.4 Further Information

The information contained herein is based on data available to us and is believed to be correct. Since this

information may have been obtained in part from independent laboratories or other sources not under our direct supervision, no representation is made that the information is accurate, reliable, complete or representative and buyer may rely thereon only at buyers risk. We make no guarantee that the health and safety precautions we have suggested will be adequate for all individuals and/or situations involving its handling and use. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use there of. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if responsible safety procedures are not adhered to as stipulated in the data sheet.