

GHS Safety Data Sheet

TE-550



Issue Date : 2022.01.01 / SDS No. : TFCEN20221001

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Details

Product name : TE-550
Other name : Cationic epoxy resin TE-550
Recommended use of the chemical and restrictions on use : Only apply for electro-coating of metals or electric conductive work-pieces.

Manufacturer or Supplier's Details

Name of manufacturer : Tatung Fine Chemicals Corporation
Address : 247-1, 16 Ling, Caota, Guanyin Dist., Taoyuan City, Taiwan, R.O.C.
Telephone / FAX No. : +886-3-483-0321 / +886-3-483-8381
Emergency telephone No. : +886-3-483-0321 # 237

2. HAZARDS IDENTIFICATION

GHS Classification : No need for classification according to GHS criteria for this product.

GHS Label Elements

Hazard symbols : None.
Signal word : None.
Hazard statements : None.

Precautionary Statements

Prevention : None.
Response : None.
Storage : None..
Disposal : None.

Other Hazards : None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture:

Components	Percentage (%)	CAS No.
Epoxy resin	35.0~37.0	25068-38-6

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Ethylene glycol monobutyl ether	1.0~2.0	111-76-2
Water	61.0~63.0	7732-18-5

4. FIRST AID MEASURES

First Aid Measures for Different Ways of Exposure

- After inhalation : Move person to fresh air; if effects occur, consult a physician.
- After skin contact : Wash off with plenty of water.
- After eye contact : Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
- After ingestion : Do not induce vomiting. Seek medical attention immediately. If person is fully conscious give 1 cup or 8 ounces (240 ml) of water.

The Most Important Symptom and Harmful Effect

: Aside from the information found under Description of first aid measures (above) and indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology information.

Protection for First Aid Personnel

: None.

Advice to Doctor

: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam fire extinguishers.

Special Risks

: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and / or irritating. Combustion products may include and are not limited to: Carbon monoxide, Carbon dioxide. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Special Procedure

: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight

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fire from protected location or safe distance. Move container from fire area if this is possible without hazard.

Protective Equipment : Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

Person-related Safety Precautions : Isolate area. Keep unnecessary and unprotected personnel from entering the area. No smoking in area.

Measures for Environment Protection : Prevent from entering into soil, ditches, sewers, waterways and / or groundwater.

Measures for Cleaning

Small spills : Absorb with materials such as: Non-combustible material. Clay. Zorb-all®.

Large spills : Contain spilled material if possible. Dike area to contain spill. Collect in suitable and properly labeled containers.

7. HANDLING AND STORAGE

Precautions for Safe Handling : Keep away from heat, sparks and flame. Do not swallow. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Use with adequate ventilation.

Storage : Store in cool place, avoid from direct sunlight, rain and rapid changes of temperature.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

Components	ACGIH TWA	TW OEL STEL	CEILING	ACGIH BEIs
Ethylene glycol monobutyl ether	20ppm	37.5ppm	None	End of shift. 200 mg/g Creatinine.

Engineering Control : Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be

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necessary for some operations.

Personal Protective Equipment

- Respiratory protection : For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.
- Eye protection : Use chemical goggles.
- Hand protection : Use gloves chemically resistant to this material. Examples of acceptable glove barrier materials include: Natural rubber ("latex"). Neoprene. Nitrile / butadiene rubber ("NBR"). Polyvinyl chloride ("PVC").
- Skin / body protection : Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Hygiene Measures : No smoking and drinking.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : Milk white liquid.
- Odor : Mild Pungent.
- Odor threshold : None.
- pH : 6.0~6.6
- Melting point / range : Not applicable.
- Boiling point / range : > 100°C
- Flammability (solid, gas) : Not applicable.
- Decomposition temperature : None.
- Flash point : > 93°C (Close cup)
- Self-inflammability : Product is not self-igniting.
- Upper / lower explosion limits : None.
- Vapor pressure : None.
- Vapor density (air=1) : > 1
- Density (water=1) : 1.03~1.07
- Solubility (water) : Soluble.
- Octanol-water partition coefficient (log Kow) : None.
- Evaporation rate (nBAc=1) : None.
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10. STABILITY AND REACTIVITY

Stability : Thermally stable at typical use temperatures.

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- Possibility of Hazardous reaction** : Polymerization will not occur.
- Conditions to Avoid** : Do not distill to dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.
- Incompatible Materials** : Strong acids. Strong bases. Strong oxidizers.
- Hazardous Decomposition Products** : Decomposition products depend upon temperature, air supply and the presence of other materials.
Decomposition products can include and are not limited to:
Aldehydes. Ketones. Organic acids.

11. TOXICOLOGICAL INFORMATION

Route of Exposure : Inhalation, skin, eye, ingestion.

Symptoms

- Inhalation** : Excessive exposure may cause irritation to upper respiratory tract(nose and throat). In humans symptoms may include: Headache.
- Skin** : Brief contact may cause slight skin irritation with local redness. Repeated exposure may cause irritation, even a burn. May cause more severe response on covered skin (under clothing, gloves).
- Eye** : May cause severe eye irritation. May cause moderate corneal injury. Vapor may cause eye irritation experienced as mild discomfort and redness.
- Ingestion** : Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Massive ingestion of ethylene glycol monobutyl ether may produce metabolic acidosis and subsequent secondary effects such as hemolysis, central nervous system and kidney effects.

Acute Toxicity

Components	Oral (LD ₅₀)	Dermal (LD ₅₀)	Inhalation (LC ₅₀)
Ethylene glycol monobutyl ether	1300 mg/kg Rat	> 2000 mg/kg Guinea pig	486 ppm Rat

Chronic Toxicity or Long Term Toxicity : None.

12. ECOLOGICAL INFORMATION

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Ecotoxicity

Components	Fish (LC ₅₀)	Aquatic invertebrates (EC ₅₀)	Algae (EC ₅₀)	Bacteria (IC ₅₀)
Ethylene glycol monobutyl ether	1464 mg/L /96h Rainbow trout	1550 mg/L /48h Water flea	911 mg/L /72h Green algae	> 1000 mg/L.

Persistence and Degradability : Material is readily biodegradable.

Bioaccumulative Potential : Bioconcentration potential is low.

Mobility in Soil : Potential for mobility in soil is high.

Special Effect : None.

13. DISPOSAL CONSIDERATIONS

Waste Disposal of Substance : Dispose of in accordance with national, state and local regulations.

Contaminated Packaging : Empty containers should be recycled or disposed through an approved waste management facility or licensed contractor.

14. TRANSPORT INFORMATION

Land Transport (ADR / DOT / RID)

UN number : Not classified as a dangerous good under transport regulations.

Proper shipping name : Not classified as a dangerous good under transport regulations.

Class : Not classified as a dangerous good under transport regulations.

Packing group : Not classified as a dangerous good under transport regulations.

Sea Transport (IMDG)

UN number : Not classified as a dangerous good under transport regulations.

Proper shipping name : Not classified as a dangerous good under transport regulations.

Class : Not classified as a dangerous good under transport regulations.

Packing group : Not classified as a dangerous good under transport regulations.

Marine Pollutant : No.

Air Transport (IATA / ICAO)

UN number : Not classified as a dangerous good under transport regulations.

Proper shipping name : Not classified as a dangerous good under transport regulations.

Class : Not classified as a dangerous good under transport regulations.

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Packing group : Not classified as a dangerous good under transport regulations.

15. REGULATORY INFORMATION

TSCA : United States Toxic Substances Control Act Section 8(b) Inventory.

EINECS / ELINCSL : European Inventory of Existing Chemical Substances / European List of Notified Chemical Substances.

IECSC : China Inventory of Existing Chemical Substances.

TCSI : Taiwan Chemical Substance Inventory.

16. OTHER INFORMATION

References : Globally Harmonized System of Classification and Labelling of Chemicals. (GHS)
Recommendations on the Transport Of Dangerous Goods - Model Regulations. (TDG)
GHS Safety Data Sheet of Butyl CELLOSOLVE™ Solvent by DOW CHEMICAL TAIWAN LIMITED.

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