

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY NAME

Product name: Antioxidant 1024
Producer/Supplier: SHANGHAI DEBORN CO., LTD.
ADD: RM604,NO,233,RUSHAN ROAD,PUDONG, SHANGHAI, CHINA
Tel: 86-021-68962123
Fax: 86-021-68963669

2. HAZARDS IDENTIFICATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical name: 2',3-Bis[[3-[3,5-di-tert-butyl-4-hydroxyphenyl]propionyl]] propionohydrazide
CAS NO: 32687-78-8

4. FIRST AID MEASURES

Inhalation: Move affected person to fresh air. In case of irritation of respiratory system or mucous membranes, or if you feel unwell or in case of prolonged exposure, get medical attention.

Skin contact: Wash with plenty of water and soap. Do not use organic solvents.

Eye contact: Rinse immediately with water for at least 15 minutes. In case of eye irritation, get medical attention.

Ingestion: Affected person should drink 500~800ml water, if possible with suspended activated carbon for medical use. In case of spontaneous vomiting be sure that vomitus can freely drain because of danger of suffocation. Give water repeatedly. Artificial induction of vomiting should be restricted to first aid staff. Give nothing by mouth in case of unconsciousness or convulsions.

5. FIRE FIGHTING AND MEASURES

Extinguishing media: Water mist, carbon dioxide, foam, dry powder.

Hazards during fire-fighting: Do not release chemically contaminated water into drains, soil or surface water. Sufficient measures must be taken to retain the water used for extinguishing.

Dispose of contaminated water and soil according to local regulations.

Protective equipment for firefighters: Use full protective clothing for chemicals and a self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment, including appropriate respirator protective to ventilate contaminated area. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

7. HANDLING AND STORAGE

Handling precautions: In accordance with good industrial practice, handle with care and avoid unnecessary

personal contact. Avoid contact with eyes and prolonged or repeated skin contact. Avoid continuous or repetitive breathing of dust

Shipping and storing precautions: Avoid dust formation and ignition sources. Ensure good local exhaust ventilation. Keep container tightly closed when not in use and during transport.

8. EXPOSURE CONTROLS AND PROTECTION

Respiratory protection: Wear suitable particular filter mask when exposed to dust.

Hand protection: Wear protective gloves.

Eye protection: Wear safety goggles or face protection.

Skin protection: Wear overall and closed fitwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white powder

Melting point: 221~232 °C

Boiling point: Not applicable

Odour: None.

Flash point: > 180 °C DIN 51584

Solubility in water: < 1mg/l at 20 °C

Ignition: 380 °C BAM

Vapor pressure: < 0.1nPa at 20 °C

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid: Static discharges.

Materials to avoid: Strong oxidizing agents, strong bases and strong acids.

11. TOXICOLOGICAL INFORMATION

LD50 acute oral toxicity in rats: > 2000mg/kg

Skin irritation tested on rabbits: No irritation.

Eye irritation tested on rabbits: No irritation.

Skin sensitization on guinea pigs: Negative.

12. ECOLOGICAL INFORMATION

LC50 Fish: > 100mg/l

EC50 Daphnia: > 15mg/l

IC50 Bacteria: > 100mg/l

EC50 Algae: > 19.8mg/l

Biodegradation: Not readily biodegradable.

Do not discharge product uncontrolled into the environment.

13. DISPOSAL CONSIDERATIONS

Incineration or landfill in accordance with local regulation.

Contaminated packaging material should be disposed of identically to the product itself.

Non contaminated packaging material should be treated as household waste or as recycling material.

14. TRANSPORT INFORMATION

RID/ADR: Not classified as a dangerous good under transport regulations.

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

IMDG-code: Not classified as a dangerous good under transport regulations.

15. REGULATORY INFORMATION

Classification according to EU.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

16. OTHER INFORMATION

Shelf life: 2 years minimum in sealed containers protect from light and air.

Suggested uses: A metal deactivator and primary antioxidant.

The information and recommendations contained herein are based upon data believe to be correct. However, no guaranty or warranty of any kind expressed or implied is made with respect to the information contained here.