Material Safety Data Sheet

Antioxidant 1035

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name:

Antioxidant 1035

Supplier:

Manufacturer/Supplier:

Dongguan Baoxu Chemical Technology Ltd

Caijing Business Bldg Dongguan CN 523071

Phone +86-769-22821082 FAX +86-769-2282108

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name: Antioxidant 1035

Chemical Name: Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, thiodi-2,1-ethanediyl ester

CAS No.: 41484-35-9

Content: 98.0% min

3. HAZARDS IDENTIFICATION

Emergency Overview: White to off-white powder or granules
No odor
Dusts can form an explosive mixture with air.

Relevant Routes of Exposure: Ingestion, inhalation and skin absorption

Signs and Symptoms of: No known signs and symptoms of exposure.

Overexposure:

Medical Conditions Generally: None reported

Aggravated By Exposure:

Potential Health Effects:

Eyes: Not expected to be a hazard in normal industrial use
As with any dust, mechanical irritation is possible to the eye.

Skin: Not expected to be a hazard in normal industrial use.
As with any dust, mechanical irritation is possible to the skin.

Ingestion: Not expected to be a hazard in normal industrial use.

Inhalation: As with any dust, mechanical irritation is possible to mucous membranes and the respiratory tract.

Chronic Health Effects: None known

Carcinogenicity:

NTP: No
IARC: No
OSHA: No
ACGIH: No
OTHER: No

4. FIRST AID MEASURES

Eyes: Flush with large volumes of water for at least 15 minutes. Get medical attention.
Skin: Wash with large volumes of soap and water for at least 15 minutes. If irritation develops, get medical attention.
Ingestion: If conscious, give person 1 to 2 glasses of water. Get medical attention immediately.
Antidotes: No information available.
Notes to Physicians and/or Protection for First-Aiders: No information available.

5. FIRE-FIGHTING MEASURES

Flammable Limits in Air (% by Volume): Not available
Flash Point: 279 (Open Cup)
Autoignition Temperature: Not available
Extinguishing Media: All conventional media are suitable.
Fire Fighting Instructions: Wear a self-contained breathing apparatus and protective clothing to prevent skin and eye contact in fire situations.
Unusual Fire and Explosion Hazards: Under fire conditions, toxic and irritating fumes may be emitted. Dusts can form an explosive mixture with air.
Flammability Classification: Combustible dust
Known or Anticipated Hazardous Products of Combustion: Oxides of sulfur
Carbon monoxide and carbon dioxide

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:

Shut off all sources of ignition.

Wearing appropriate personal protective equipment, carefully sweep up material and place in suitable labeled containers for disposal.

Wash spill area after pick-up is complete, collecting all clean up water for appropriate disposal. Avoid creating a dusting condition.

Personal Precautions:

See Section VIII.

Environmental Precautions:

Avoid releasing to the environment.

7. HANDLE AND STORAGE

Handling:

Use appropriate personal protection equipment.

Avoid eye, skin and clothing contact.

Avoid breathing dust.

Avoid repeated and prolonged contact.

Keep away from heat, sparks and flame.

Prevent buildup of static electricity. Avoid creating a dusting situation.

All equipment should be properly grounded.

Storage:

Store in a cool, dry well-ventilated area away from incompatible materials. Keep container tightly closed. Avoid iron contamination. Store away from heat, sparks and flame.

Other Precautions:

Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Adequate general ventilation is recommended when handling to control airborne levels.

Ventilation Requirements:

Use local exhaust to minimize dusting.

Use mechanical ventilation for general area control.

Personal Protective Equipment:

Eye/Face Protection:

Chemical safety glasses with side shields or chemical safety goggles

Skin Protection:

Gloves - PVC

Clothing designed to minimize skin contact

Respiratory Protection:

Wear a NIOSH/MSHA approved dust respirator if dusting occurs, or

there is potential for airborne exposures to exceed established threshold values.

Consult the OSHA respiratory protection information located at 29CFR 1910.134 and the American National Standard Institute's

Practices of Respiratory Protection Z88.2.

Other Protective Clothing or

Equipment: No information available

Work Hygienic Practices:

Wash thoroughly after handling.

Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white powder
Boiling Point: Not available
Bulk Density: Not available
Color: White to off-white
Decomposition Temperature: >220
Evaporation Rate: Not available
Freezing Point: Not available
Heat Value: Not available
Melting Point: 63-82
Molecular/Chemical Formula: C38H58O6S
Molecular Weight: 642
Octanol/Water Partition Coefficient: Log Pow >6
Odor: No odor
Odor Threshold: Not available
Particle Size: Not available
Percent Volatile: Not available
pH Value: 7.97
pH Concentration: 1% in water
Physical State: Solid
Reactivity in Water: Not water reactive
Saturated Vapor Concentration: Not available
Softening Point: Not available
Solubility in Water: <1 mg/L at 20
Specific Gravity or Density (Water=1): 1.01 at 20
Vapor Density: Not available
Vapor Pressure: Not available
Viscosity: Not available
Volatile Organic Compounds: Not available
Water/Oil Distribution Coefficient: Not available
Weight Per Gallon: Not available

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of handling and use.

Conditions to Avoid:

Temperatures above 220 cause decomposition.

Incompatibility With Other Materials:

Strong oxidizers

Strong acids

Strong bases

Hazardous Decomposition Products:

Thermal decomposition may produce the following:

Oxides of sulfur

Carbon monoxide and carbon dioxide

Hazardous Polymerization:

Will not occur

Conditions to Avoid: None

11. TOXICOLOGICAL INFORMATION

VALUE (LD50 OR LC50)	ANIMAL	ROUTES	COMPONENTS
>3.5 mg/L/4H	Rat	Acute Inhalation	Thiodiethylene-bis(3,5-di-tert-butyl-4-hydroxyhydrocinnamate
>3,000 mg/kg	Rabbit	Acute Dermal	Thiodiethylene-bis(3,5-di-tert-butyl-4-hydroxyhydrocinnamate
>5,000 mg/kg	Rat	Acute Oral	Thiodiethylene-bis(3,5-di-tert-butyl-4-hydroxyhydrocinnamate

Toxicological Information:

This material was not found to be acutely toxic in skin, inhalation or ingestion exposure studies.

This material has been determined not to be a primary eye irritant in rabbits.

This material has been determined not to be a primary skin irritant in rabbits.

This material did not cause sensitization in a guinea pig maximization study.

This material was not determined to be mutagenic in the Ames Test.

Other acute and chronic health hazards, as well as target organs, are unknown.

As with all dusts, inhalation of air concentration levels above the PNOR may cause irritation and adverse lung effects.

12. ECOLOGICAL INFORMATION

Ecological Information: The following ecological information is offered:

LC50 in Salmon gartner (96H) >61 mg/L

LC50 in Zebra Fish (96H) >57 mg/L

EC50 in Daphnia magna (48H) = >100 mg/L

EC50 in algae, Scenedesmus sp. (72H) >100 mg/L

EC50 in bacteria (3H) >100mg/L

This material was found to be hardly biodegradable in the Sturm test.

Avoid releasing to the environment.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations:

Dispose of waste at an approved chemical disposal facility in compliance with all current Local, Province laws and regulations.

14. TRANSPORT INFORMATION

Not available

15. REGULATORY INFORMATION

International Regulations:

This material (or each component) is listed on the following inventories:

Canada-DSL

EU-EINECS

Australia-AICS

Japan-ENCS

Korea-ECL

Philippines-PICCS

China-List I

Canadian WHMIS Hazard Class and Division = D.2.b

SARA Hazards:

Acute: No Chronic: Yes

Reactive: No Fire: No

Pressure: No

16. OTHER INFORMATION

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

Suggested uses: Use as an antioxidant and metal deactivator.

This information only concerns the above mentioned product and not be valid if used with other product(s) or any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete.