



TULSTAR PRODUCTS, INC.

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MATERIAL SAFETY DATA SHEET

Company Information

Company Information:	TULSTAR PRODUCTS, INC. 5510 S. Lewis Ave. Tulsa, OK 74105
Phone Number:	(918) 749-9060
Fax Number:	(918) 747-1444
Email Address:	tulstar@tulstar.com
Emergency Phone Number:	CHEMTREC 800-424-9300 (24 hours)

Ingredients/Identity Information

Product Name:	Benzotriazole
Ingredient:	1,2,3-Benzotriazole
Ingredient Sequence Number:	01
Percent:	99.5 min.
NIOSH (RTECS) Number:	DM122SO00
CAS Number:	95-14-7
OSHA PEL:	15 mg/m ³ TDUST
ACGIH TLV:	10 mg/m ³ TDUST; 9192
Other recommended Limit:	none specified

Physical/Chemical Characteristics

Appearance And Odor:	Off white powder, slight characteristic odor.
Boiling Point:	664°F,351°C
Melting Point:	96.3 degrees centigrade
Vapor Pressure (MM Hg/70 F):	0.04
Vapor Density (Air=1):	Unknown
Specific Gravity:	1.36
Decomposition Temperature:	Unknown
Evaporation Rate And Ref:	Not applicable
Solubility In Water:	2.0k.
Percent Volatiles By Volume:	None

Fire and Explosion Hazard Data

Flash Point:	340°F,171°C
Flash Point Method:	COC
Lower Explosive Limit:	Unknown
Upper Explosive Limit:	Unknown
Extinguishing Media:	Dry chemical, foam of carbon dioxide.
Special Fire Fighting Proc:	Water may be ineffective. If used, fog nozzles are referable. Water may be used to cool closed containers exposed to extreme heat to prevent possible explosion.
Unusual Fire And Expl Hazrds:	Airborne dust is rated as a severe explosion hazard at a minimum concentration of 0.03 ounce per cubic foot (30 grams)

Reactivity Data

Stability:	Yes
Cond To Avoid (Stability):	Heat, sparks, open flames and ignition sources.
Materials To Avoid:	Strong oxidizers.
Hazardous Decomp Products:	Carbon monoxide, carbon dioxide, nitrogen oxides and HCN in reducing atmosphere.
Hazardous Poly Occur:	No.

Health Hazard Data

LD50-LC50 Mixture:	Unknown
Route Of Entry - Inhalation:	Yes
Route Of Entry - Skin:	No
Route Of Entry - Ingestion:	Yes
Health Haz Acute And Chronic:	Main hazards are eye irritation and inhalation of dust, which affects the upper respiratory tract. Product is also toxic by ingestion.
Carcinogenicity - NTP:	No
Carcinogenicity - IARC:	No
Carcinogenicity - OSHA:	No
Explanation Carcinogenicity:	Not applicable
Signs/Symptoms Of Overexp:	EYES: Redness, stinging, burning sensation and irritation. SKIN: Redness and irritation.
Inhalation/Ingestion:	Burning sensation and irritation the nose, mouth, throat upper respiratory tract and G.I.
Med Cond Aggravated By Exp:	Product dust will aggravate pre-existing respiratory conditions.
Emergency/First Aid Proc:	EYES: Flood with water for 15 minutes. If irritation persists, get medical attention. INHALATION: Move victim to fresh air. If not breathing give CPR. If breathing difficult, give oxygen. Get medical attention. INGESTION: Administer large quantities of water and induce vomiting if victim is conscious. Get medical attention.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill:	Do not allow spill to enter drains, sewers or waterways. Vacuum or sweep up and reuse if possible. If not, re-useable, place in proper containers for disposal. Flush area with large amounts of water. Comply with all spill notification regulations.
Neutralizing Agent:	None given by manufacturer.
Waste Disposal Method:	Contact your local environmental officer. Dispose of waste in compliance with local, state and federal regulations.
Precautions-Handling/Storing:	Store in a cool, dry well ventilated area away from oxidizers. Keep containers closed. Isolate from open ignition sources. Enforce no smoking rules.
Other Precautions:	Avoid breathing dust. Avoid eye and skin contact. Clean contaminated equipment thoroughly before starting repair work. Use explosion-proof equipment.

Control Measures

Respiratory Protection:	None normally required. However, if working in confined areas, if heavy dust is expected or if recommended exposure limits are exceeded, use NIOSH-approved respiratory protection for nuisance dust.
Ventilation:	Explosion-proof mechanical (general) and local exhaust recommended.
Protective Gloves:	Rubber or vinyl.
Eye Protection:	Safety glasses or goggles.
Other Protective Equipment:	Eyewash station and emergency shower. Wear long-sleeve shirt and pants when handling chemicals.
Work Hygienic Practices:	Wash hands and face after handling this product. Shower after working in dusty conditions. Launder contaminated clothing.
Suppl. Safety & Health Data:	Use this product only with adequate ventilation. Avoid creating airborne dust concentration which could constitute a potential dust explosion hazard. Isolate any open ignition sources. Use explosion-proof equipment.