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MATERIAL SAFETY DATA SHEET

DATE : Feb. 20. 2012

1. Chemical product

SUBSTANCE : 1,2-BENZISOTHIAZOLIN-3-ONE

TRADE NAMES : BIT

2. INFORMATION ON INGREDIENTS

CAS NUMBER: 2634-33-5

EC NUMBER (EINECS): 220-120-9

EC INDEX NUMBER: 613-088-00-6

PERCENTAGE: 99.0%min.

3. PHYSICAL AND CHEMICAL PROPERTIES

3.1 PHYSICAL STATE: Solid

3.2 ODOR: Not available

3.3 MOLECULAR WEIGHT: 151.80

3.4 MOLECULAR FORMULA: C7-H5-N-O-S

3.5 BOILING POINT: Not available

3.6 FREEZING POINT: Not available

3.7 VAPOR PRESSURE: Not available

PRODUCT NAME : B.I.T

3.8 VAPOR DENSITY: Not available
3.9 SPECIFIC GRAVITY: Not available
3.10 WATER SOLUBILITY: Not available
3.11 PH : Not available
3.12 VOLATILITY: Not available
3.13 ODOR THRESHOLD: Not available
3.14 EVAPORATION RATE: Not available
3.15 COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

4. HAZARDS IDENTIFICATION

4.1 NFPA RATINGS (SCALE 0-4): HEALTH=1 FIRE=U REACTIVITY=0

4.2 EC CLASSIFICATION (ASSIGNED):

Xn Harmful

Xi Irritant

Sensitizing

4.3 R 22-38-43

4.4 EC Classification may be inconsistent with independently-researched data.

4.5 EMERGENCY OVERVIEW:

PHYSICAL FORM: Solid

MAJOR HEALTH HAZARDS: allergic reactions

PHYSICAL HAZARDS: Unknown fire hazard.

4.6 POTENTIAL HEALTH EFFECTS:

4.6.1 INHALATION:

SHORT TERM EXPOSURE: no information is available

LONG TERM EXPOSURE: no information is available

PRODUCT NAME : B.I.T**4.6.2 SKIN CONTACT:**

SHORT TERM EXPOSURE: irritation, allergic reactions

LONG TERM EXPOSURE: same as effects reported in short term exposure

4.6.3 EYE CONTACT:

SHORT TERM EXPOSURE: no information is available

LONG TERM EXPOSURE: no information is available

4.6.4 INGESTION:

SHORT TERM EXPOSURE: no information on significant adverse effects

LONG TERM EXPOSURE: no information is available

4.7 CARCINOGEN STATUS:

OSHA: N

NTP: N

IARC: N

5. FIRST AID MEASURES**5.1 INHALATION**

Remove from exposure immediately. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed. Get medical attention.

5.2 SKIN CONTACT

Remove contaminated clothing, jewelry, and shoes immediately.

Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention, if needed.

5.3 EYE CONTACT

Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately.

PRODUCT NAME : B.I.T**5.4 INGESTION**

If vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention, if needed.

6. FIRE FIGHTING MEASURES

6.1 FIRE AND EXPLOSION HAZARDS: Unknown fire hazard.

6.2 EXTINGUISHING MEDIA

regular dry chemical, carbon dioxide, water, regular foam

Large fires: Use regular foam or flood with fine water spray.

6.3 FIRE FIGHTING

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks.

For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following

precautions: Keep unnecessary people away, isolate hazard area and deny entry.

Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck:

Evacuation radius: 800 meters (1/2 mile). Do not attempt to extinguish fire unless flow of material can be stopped first. Flood with fine water spray. Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

FLASH POINT: No data available.

PRODUCT NAME : B.I.T

7. ACCIDENTAL RELEASE MEASURES

7.1 OCCUPATIONAL RELEASE:

Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Remove sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry.

8. HANDLING AND STORAGE

9.1 Store and handle in accordance with all current regulations and standards.
Keep separated from incompatible substances.

10. EXPOSURE CONTROLS, PERSONAL PROTECTION

10.1 EXPOSURE LIMITS

No occupational exposure limits established.

10.2 VENTILATION

Provide local exhaust ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

10.3 EYE PROTECTION

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

10.4 CLOTHING

Wear appropriate chemical resistant clothing.

10.5 GLOVES

Wear appropriate chemical resistant gloves.

PRODUCT NAME : B.I.T**10.6 RESPIRATOR**

Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum.

Consider warning properties before use.

Any chemical cartridge respirator with organic vapor cartridge(s).

Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).

Any air-purifying respirator with a full facepiece and an organic vapor canister.

For Unknown Concentrations or Immediately Dangerous to Life or Health -

Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full facepiece.

11. STABILITY AND REACTIVITY**11.1 REACTIVITY**

Stable at normal temperatures and pressure.

11.2 CONDITIONS TO AVOID

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers.

11.3 INCOMPATIBILITIES

oxidizing materials

11.4 HAZARDOUS DECOMPOSITION

Thermal decomposition products: oxides of carbon, nitrogen, sulfur

11.5 POLYMERIZATION

Will not polymerize.

PRODUCT NAME : B.I.T

12. TOXICOLOGICAL INFORMATION

12.1 TOXICITY DATA

1020 mg/kg oral-rat LD50

12.2 ACUTE TOXICITY LEVEL

Moderately Toxic: ingestion

12.3 TARGET ORGANS

immune system (sensitizer)

13. ECOLOGICAL INFORMATION

13.1 ECOTOXICITY DATA

FISH TOXICITY : 10000 ug/L 96 hour(s) LC50 (Mortality) Bleak(*Alburnus alburnus*)

INVERTEBRATE TOXICITY : 25000 ug/L 96 hour(s) LC50 (Mortality) Harpacticoid
copepod (*Nitocra spinipes*)

14. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

15. TRANSPORT INFORMATION

No classification assigned.

16. REGULATORY INFORMATION

16.1 U.S. REGULATIONS:

TSCA INVENTORY STATUS: Y

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

PRODUCT NAME : B.I.T

CERCLA SECTION 103 (40CFR302.4): N

SARA SECTION 302 (40CFR355.30): N

SARA SECTION 304 (40CFR355.40): N

SARA SECTION 313 (40CFR372.65): N

SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):

ACUTE: Y

CHRONIC: Y

FIRE: N

REACTIVE: N

SUDDEN RELEASE: N

OSHA PROCESS SAFETY (29CFR1910.119): N

16.2 STATE REGULATIONS

California Proposition 65: N

16.3 EUROPEAN REGULATIONS:

EC NUMBER (EINECS): 220-120-9

16.4 EC RISK AND SAFETY PHRASES:

R 22	Harmful if swallowed.
R 38	Irritating to skin.
R 43	May cause sensitization by skin contact.
S 2	Keep out of reach of children.
S 24	Avoid contact with skin.
S 37	Wear suitable gloves.

