

GRANICRETE INTERNATIONAL

MATERIAL SAFETY DATA SHEET

DATE OF PREPARATION: 02/01/07

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WB-IR67 GLOSS - RESIN

COMPANY INFORMATION: GRANICRETE INTERNATIONAL
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2. HAZARDS IDENTIFICATION

Emergency Overview Color: Colorless, White Form: liquid Odor: very faint. Product poses little or no hazard if spilled. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Irritating gases/fumes may be given off during burning or thermal decomposition.

Potential Health Effects

Primary Routes of Entry: Skin Contact, Eye Contact
Medical Conditions Aggravated by Exposure: None known.

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

Inhalation

Acute Inhalation

For Component: Triethanolamine

Inhalation is unlikely due to the low vapor pressure. If misted or handled at elevated temperatures, high concentrations may cause respiratory tract irritation.

Skin

Acute Skin

For Component: Triethanolamine

May cause irritation with symptoms of reddening and itching.

For Component: Proovlene Givcol n-Butyl Ether

Slightly toxic by skin absorption.

Eye

Acute Eye

For Component: Triethanolamine

May cause irritation with symptoms of reddening, tearing and stinging.

Ingestion

Acute Ingestion

For Component: Triethanolamine

Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea.

For Component: Propylene Glycol n-Butyl Ether

May be harmful if swallowed.

Chronic Ingestion

For Component: Triethanolamine

May cause liver damage. May cause kidney damage.

Other Effects of Exposure

For Product: BAYHYDROL XP 2542

This product contains an amine neutralizing agent which is bound in the matrix of this product as a salt.

This amine salt is considered essentially unreactive at room temperature. Generation of amine vapors is expected when this product is processed (heated) during the drying/hardening of the coating. The health effects statements in this section apply to the amine vapors thus produced.

Carcinogenicity:

No Carcinogenic substances as defined by IARC, NTP and/or OSHA |

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

The amine listed in this section is used as a neutralizing agent in the product and as such is bound in the matrix of the product as a salt. However, upon processing or drying/hardening of the coating some neutralizing agent (amine) may be released.

Weight	Components	CAS-No.
1-5	Triethanolamine	102-71-6
1 - 5	Propylene Glycol n-Butyl Ether	5131-66-8

4. FIRST AID MEASURES

Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention if irritation develops.

Skin Contact

In case of skin contact, wash affected areas with soap and water. Get medical attention if irritation develops. Thoroughly clean shoes before reuse. Wash clothing before reuse.

Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen.

Ingestion

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention. |

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: carbon dioxide (CO₂), dry chemical, foam, water spray for large fires.

Special Fire Fighting Procedures

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal.

7. HANDLING AND STORAGE

Storage Temperature: minimum: 4.44 °C (40 °F)
maximum: 50°C(122°F)

Storage Period

6 Months @ 25 °C (77 °F)

Handling/Storage Precautions

Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling.

Keep container closed when not in use. Protect from freezing. Avoid contact with eyes and skin.

Further Info on Storage Conditions

Protect from freezing. Store in a cool dry place. Store in original or similar containers. Employee education and training in the safe use and handling of this product are required under the OSHA Hazard

Communication Standard 29 CFR 1910.1200.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Triethanolamine (102-71-6)

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 5 mg/m³

Industrial Hygiene/Ventilation Measures

Under normal conditions of use, special ventilation is not required. Thermal processing operations should be ventilated to control gases and fumes given off during processing.

Respiratory Protection

None required under normal conditions of use., NIOSH approved air-supplied respirator during die cleaning, high temperature processing or when thermal decomposition is suspected.

Hand Protection

Permeation resistant gloves., Butyl rubber gloves., Nitrile rubber gloves.

Eye Protection safety glasses with side-shields.

Skin and body protection

Permeation resistant clothing. Gloves, long sleeved shirts and pants.

Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Color:	Colorless, White
Odor:	very faint
pH:	Not Established
Freezing Point:	0 °C (32 °F)
Boiling Point/Range:	Begins at 100 °C (212 °F)
Flash Point:	Not applicable (water based product), however, solid material will support combustion if water has been evaporated.
Lower Explosion Limit:	Not Established
Upper Explosion Limit:	Not Established
Vapor Pressure:	Not Established
Specific Gravity:	No Data Available
Solubility in Water:	Soluble
Autoignition Temperature:	Not Established
Viscosity, Dynamic:	no data available
Bulk Density:	No Data Available

10. STABILITY AND REACTIVITY

Hazardous Reactions

Hazardous polymerization does not occur.

Stability

Stable

Materials to avoid

Water reactives

Conditions to avoid

Protect from freezing.

Hazardous decomposition products

By Fire and High Heat: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke, Hydrogen cyanide, Isocyanate, Isocyanic Acid, Other undetermined compounds

11. TOXICOLOGICAL INFORMATION

Toxicity Data for WATERBASE CRU

Toxicity Note

Toxicity data is based on a similar product.

Acute Oral Toxicity

LD50: > 2,000 mg/kg (rat)

Skin Irritation rabbit, OECD Guideline for Testing of Chemicals, No. 404, Exposure Time: 4 hrs,
No skin irritation

Eye Irritation rabbit, OECD Guideline for Testing of Chemicals, No. 405, Slightly irritating

Mutagenicity

Genetic Toxicity in Vitro:

Ames: negative (Salmonella typhimurium)

Toxicity Data for Triethanolamine

Acute Oral Toxicity

LD50: 4,190 mg/kg (Rat)

Acute dermal toxicity

LD50: > 2,000 mg/kg (rabbit)

Skin Irritation rabbit. Slightly irritating

Human, Slightly irritating

Eye Irritation

rabbit, Moderately irritating rabbit, Draize, Severely irritating

Sensitization dermal: non-sensitizer (Guinea pig, Maximization Test)

Repeated Dose Toxicity

28 days, inhalation: NOAEL: > 0.5 mg/l, (Rat, Male/Female, 6 hrs/day 5 days/week)

13 weeks, Dermal: NOAEL: 500 mg/kg, (rat, Male/Female, daily)

Mutagenicity

Genetic Toxicity in Vitro:

Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:

Drosophila SLRL test: negative (Drosophila melanogaster)

Carcinogenicity

rat, female, dermal, 2 years, daily negative

mouse, Female, dermal, 2 years, positive

Rat, male, dermal, 2 years, ambiguous

mouse, male, dermal, 2 years, ambiguous

Nitrosamines may be formed with nitrates or nitrous acid under certain conditions .
Nitrosamines have shown carcinogenic effects in animal tests.

Toxicity Data for Propylene Glycol n-Butyl Ether

Acute Oral Toxicity

LD50: 1,900 mg/kg (Rat)

Acute dermal toxicity

LD50: 3,100 mg/kg (rabbit)

Skin Irritation rabbit, Irritating to skin.

Eye Irritation rabbit, Irritating to eyes.

Repeated Dose Toxicity

11 d, Inhalation: NOAEL: <600 ppm, (Rat)

12. ECOLOGICAL INFORMATION

Ecological Data for BAYHYDROL XP 2542

Biodegradation

< 60 ,

Acute and Prolonged Toxicity to Fish

EC50: > 100 mg/1 (Zebra fish (Brachydanio rerio), 96 hrs)

Additional Ecotoxicological Remarks

Ecotoxicology data is based on a similar product.

Ecological Data for Triethanolamine

Biodegradation

Aerobic, 82 , Exposure time: 8 Days

Inherently biodegradable.

Biological Oxygen Demand (BOD)

5 Days, 0.17 mg/1

Chemical Oxygen Demand (COD)

0.5 mg/g

Theoretical Biological Oxygen Demand (ThBOD)

1.61 -2.04 mg/g

Bioaccumulation

Carp, Exposure time: 42 Days, < 0.4 BCF

Acute and Prolonged Toxicity to Fish

LC50: > 5,000 mg/1 (Fathead minnow (Pimephales promelas), 96 hrs)

LC50: 450 mg/1 (Bluegill (Lepomis macrochirus), 96 hrs)

Acute Toxicity to Aquatic Invertebrates

EC50: 1,386 mg/1 (Water flea (Daphnia magna), 24 hrs)

Toxicity to Aquatic Plants

EC50: 216 - 750 mg/1, End Point: growth (Green algae (Scenedesmus subspicatus), 72 hrs)

Toxicity to Microorganisms

EC10: 7,650 mg/1, (Pseudomonas putida, 16 hrs)

EC50: 525 mg/1, (Photobacterium phosphoreum, 30 min)

Ecological Data for Propylene Glycol n-Butyl Ether**Biodegradation**

> 90 , Exposure time: 28 d

Acute and Prolonged Toxicity to Fish

LC50: 560 - 1,000 mg/1 (Guppy (Poecilia reticulata))

Acute Toxicity to Aquatic Invertebrates

EC50: > 1,000 mg/1 (Water flea (Daphnia magna))

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method**

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Empty Container Precautions

Recondition or dispose of empty container in accordance with governmental regulations.

14. TRANSPORTATION INFORMATION**Land transport (DOT)**

Non-Regulated

Sea transport (IMDG)

Non-Regulated

Air transport (ICAO/IATA)

Non-Regulated |

15. REGULATORY INFORMATION**United States Federal Regulations**

OSHA Hazcom Standard Rating: Hazardous

US. Toxic Substances Control Act: Listed on the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302):

Components

None

