

Material Safety Data Sheet

1. CHEMICAL PRODUCT:

- MSDS NUMBER: 1144
- DATE OF ISSUE / LATEST REVISION: SEP, 09, 2008

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION: May cause eye, skin and respiratory tract irritation. Odorless white liquid.

POTENTIAL HEALTH EFFECTS:

Eye: May cause severe irritation.

Skin Contact: May cause severe irritation.

Skin Absorption: Not absorbed through intact skin.

Ingestion: Ingestion of large quantities of this product may cause gastric

3. COMPOSITION / INFORMATION ON INGREDIENTS

ACGIH OSHA

Component CAS # Percent (TLV) (PEL) Units

Water 7732-18-5 70-75 NE NE NE

Boron Nitride 10043-11-5 15-20 10 (T) 15 (T) mg/M₃

3 (R) 5 (R) mg/M₃

Potassium Silicate 1312-76-1 10-15 10 (T) 15 (T) mg/M₃

3 (R) 5 (R) mg/M₃

T = Total Dust

R = Respirable Dust

NE = Not established

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average
OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v.

OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

4. FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Seek medical attention if irritation

Handling: Avoid contact with the eyes and skin. Avoid generating and breathing dust. Use with adequate local exhaust ventilation. Wear protective clothing to minimize skin contact. Remove contaminated clothing and clean before reuse. Wash thoroughly after work using soap and water. Keep away from children.

Empty Containers: Product packaging may contain product residue. Do not reuse.

8. EXPOSURE CONTROL – PERSONAL PROTECTION

Engineering Controls: Ventilation and other forms of engineering controls are the preferred means for controlling exposures. The need for local exhaust ventilation should be evaluated by a professional industrial hygienist. Local exhaust ventilation systems should be designed by a professional engineer.

Respiratory: If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29 CFR 1910.134).

Eye Protection: Safety glasses with side shields.

Protective Gloves: Polymeric gloves.

General: Avoid unnecessary skin contact with this material. Polymeric coated apron or other body covering is recommended. All soiled or dirty clothing and personal protective equipment should be thoroughly cleaned before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & PHYSICAL STATE: White liquid MELT POINT: ~ 32°F

VAPOR DENSITY (AIR=1): Not Applicable OCTANOL/WATER PARTITION

COEFFICIENT: Not Determined

VAPOR PRESSURE: Water ~ 17 mm HG @ 70°F EVAPORATION RATE BuOAC = 1: < 1

ODOR: None SPECIFIC GRAVITY/BULK DENSITY:

BD = 10.6 lbs/gallon

% VOLATILE BY VOLUME: 70-75 (Water) BOILING POINT: Not Determined

% SOLUBILITY (H₂O): 70-75 (Water) pH: 11.9

11. TOXICOLOGICAL INFORMATION

Boron nitride is physiologically inert and is considered a “nuisance” dust. Other boron compounds may be highly toxic and considered poisonous. Free boron will not be liberated under normal operating conditions or thermal decomposition of boron nitride. Exposure to boron nitride will not result in boron poisoning.

12. ECOLOGICAL INFORMATION

No ecotoxicity data is available. Product is inert. It is not expected to present an environmental hazard.

13. DISPOSAL CONSIDERATIONS

As prepared, product is considered non-hazardous. Dispose in accordance with all local, state, and federal or provincial regulations. If used or waste product is disposed of testing should be conducted to determine hazard characteristics. Empty containers will have product residues. Do not reuse.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT)

Proper Shipping Name: Not Regulated

Hazard Class: Not applicable

UN/NA Code: Not applicable

Packing Group: Not applicable

15. REGULATORY INFORMATION

U.S. Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA) Reportable Quantity:

This product is not subject to CERCLA reporting requirements. Report spills required under federal, state and local regulations.

Clean Water Act (CWA):

This product, as supplied, contains the following substances which are regulated pollutants under the Clean

Water Act (40 CFR 122.21 and 122.42 with reference to Appendix D, Tables II-V).

Facilities must notify the

appropriate permitting agency prior to introducing this product into its storm water and process waste water discharges.

