

Website: <http://www.monroefluid.com>

Material Safety Data Sheet

Product Name: **ASTRO-GRIND A** Effective Date: 02/11/02 Date Printed: 03/25/02 Page: 1

NFPA Rating:

Health: 1 Flammability: 0 Reactivity: 0 Personal Protection: B

1) HAZARDOUS INGREDIENTS: (% wt., unless otherwise noted)

| CHEMICAL NAME | CAS # | % |
|-----------------|----------|------|
| Alkanolamine | 141-43-5 | 5-10 |
| Triethanolamine | 102-71-6 | 1-5 |

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2) PHYSICAL DATA:

| | |
|----------------------|--------------------------|
| Boiling Point: | 215° F. |
| Vapor Pressure: | 20 |
| Vapor Density: | 1 |
| Solubility In Water: | Complete |
| pH: @ 20:1 | 9.6 ± 0.3 |
| Sp. Gravity: | 1.02 ± 0.01 |
| Appearance: | Clear light amber liquid |
| Odor: | Sweet |

3) FIRE AND EXPLOSION HAZARD DATA:

| | |
|--------------|------|
| Flash Point: | None |
| Method Used: | PMCC |

FLAMMABLE LIMITS:

| | |
|------|------|
| LFL: | None |
| UFL: | None |

EXTINGUISHING MEDIA: Water, carbon dioxide, dry chemical

FIRE & EXPLOSION HAZARDS: Intense heat may cause unopened drums to rupture. Cool fire-exposed surfaces with water.

FIRE-FIGHTING EQUIPMENT: Use NIOSH-approved self-contained breathing apparatus.

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4) REACTIVITY DATA:

STABILITY: (conditions to avoid) Stable under normal storage and use conditions

INCOMPATIBILITY: (specific materials to avoid) Do not mix with strong acids or bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce asphyxiants.

HAZARDOUS POLYMERIZATION: Will not occur

5) ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Contain spill. Use wet/dry vacuum, squeegee or mop to pick up material. Flush residue down drain, mop dry. Treat slippery surfaces with absorbents.

DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.

6) HEALTH HAZARD DATA:

EYE: Contact may cause irritation.

SKIN CONTACT: Prolonged or repeated contact may cause mild irritation of the skin.

SKIN ABSORPTION: Not likely to occur

INGESTION: Small amounts ingested incidental to normal handling are not likely to cause injury; Larger amounts ingested may cause injury.

INHALATION: May cause respiratory irritation if mists are generated.

SYSTEMIC (other target organ) EFFECTS: None known

TERATOLOGY (birth defects): No adverse effects expected

REPRODUCTIVE EFFECTS: No adverse effects expected

MUTAGENICITY (effects on genetic material): No adverse effects expected

CARCINOGENICITY: IARC: NO NTP: NO OSHA: NO

7) FIRST AID:

EYES: Flush with large amounts of water for 15 minutes. If irritation persists, contact a physician.

SKIN: Wash with soap and water.

INGESTION: Give milk or water. Consult a physician.

INHALATION: Remove to fresh air. If symptoms persist, consult a physician.

NOTE TO PHYSICIAN: Treatment of overexposure should be directed toward the control of symptoms and the clinical condition.

8) HANDLING PRECAUTIONS :

EXPOSURE GUIDELINE: Alkanolamine: ACGIH TLV: 6 mg/m³

Triethanolamine ACGIH TLV: 5 mg/m³

VENTILATION: General room ventilation should be satisfactory. Local exhaust ventilation may be necessary if misting is generated.

RESPIRATORY PROTECTION: None normally required

SKIN PROTECTION: Protective rubber gloves



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EYE PROTECTION: Safety glasses

9) ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Product contains Amines. Sodium Nitrite or other nitrosating agents should not be added to this product. This step will prevent the formation of nitrosamines which are known to be animal carcinogens.

Launder contaminated clothes before reuse. Avoid prolonged breathing of mist and vapors. Use as directed.

Normal precautions common to good manufacturing practices should be followed in handling and storing. Store away from food in a cool, dry area. Wash hands before eating, drinking or smoking and after handling.

REGULATORY INFORMATION: (Not meant to be all-inclusive--selected regulations represented).

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The components of this product are listed on the TSCA inventory.

This product contains the toxic chemical or chemicals listed below, which are subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 ("SARA") and the requirements of 40 CFR part 372. None

This notice must not be detached from the foregoing MSDS. If the MSDS is copied for any reason, including distribution, this notice must also be copied and accompany all redistributed MSDS'. Failure to do so may subject you to penalties under law. This product contains the following ingredient(s) which are regulated under the Clean Air Act Section 112 hazardous air pollutants and is subject to all reporting requirements of CERCLA (Superfund). None

10) TRANSPORTATION INFORMATION:

PROPER SHIPPING NAME: Non-regulated

DOT HAZARD CLASS: Non-regulated