

MATERIAL SAFETY DATA SHEET



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: Griffin Bros., Inc.
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INFORMATION PHONE: (800) 456-4743

For Medical and Chemical Emergencies **CHEMTREC: 1-800-424-9300**

PRODUCT NAME: Heavy Duty Industrial Cleaner-Degreaser
PRODUCT NUMBER: AM60
DATE PREPARED: 06/15/07
LAST REVISION: 06/15/07
SYNONYMS: JC191C, Brown degreaser

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	OSHA PEL	ACGIH TLV	Range Wt. %
ETHANOLAMINE	141435	PEL = 3 ppm(6mg/M3)	STEL = 6 ppm(15 mg/M3) TLV = 3ppm(7.5 mg/M3)	1 - 4
2-BUTOXY ETHANOL	111762	PEL = 50 ppm(240mg/M3) (SKIN)	TLV = 25ppm(121 mg/M3) SKIN	3 - 7
SODIUM HYDROXIDE	1310732 Mixture	PEL = 2mg/M3	STEL = C 2 mg/M3	10 - 15

3. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW: CORROSIVE!

POTENTIAL HEALTH EFFECTS

- EYE CONTACT:** Vapors, liquid and mists are extremely corrosive to the eyes. Brief contact of the liquid or mists will severely damage the eyes and prolonged contact may cause permanent eye injury which may be followed by blindness.
- INHALATION:** Vapors, liquid and mists are extremely corrosive to the nose, throat and mucus membranes. Bronchitis, pulmonary edema, and chemical pneumonitis may occur. Irritation, coughing, chest pain and difficulty in breathing may occur with brief exposure, while prolonged exposure may result in more severe irritation and tissue damage. Breathing high concentrations may result in death.
- INGESTION:** Vapors, liquid and mists are extremely corrosive to the mouth and throat. Swallowing the liquid burns the tissues, causes severe abdominal pain, nausea, vomiting and collapse. Swallowing large quantities can cause death.
- SKIN CONTACT:** Vapors, liquid and mists are extremely corrosive to the skin. Vapors will severely irritate the skin, and liquid and mists will severely burn the skin. Prolonged skin contact will burn or destroy surrounding tissue and death may accompany burns which extend over large portions of the body. A latent period may exist between exposure and sense of irritation.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation, pain, coughing, redness of skin.

4. FIRST AID MEASURES

- EYE CONTACT:** Immediately flush eyes with water for at least 15 minutes. Get medical attention if irritation persists.
- INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
- INGESTION:** If swallowed, do NOT induce vomiting. Give victim lots of water or milk. Get medical attention immediately. Never give anything by mouth to an unconscious or convulsing person.
- SKIN CONTACT:** Wash with soap and water. Change contaminated clothing. Get medical attention if irritation develops or persists.

AGGRAVATED MEDICAL CONDITIONS:

Pre-existing skin or respiratory conditions. Repeated overexposure may cause kidney and liver exposure.

SUPPLEMENTAL HEALTH INFORMATION:

The effects of long-term, low-level exposure to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

5. FIRE FIGHTING MEASURES**FLAMMABLE PROPERTIES**

FLASH POINT:	N/A	FLASH POINT METHOD USED:	N/A
AUTOIGNITION:	N/A	LEL:	UEL:

EXTINGUISHING MEDIA:

Water fog, dry chemical foam or carbon dioxide. Use extinguishing media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing and a NIOSH-approved self-contained breathing apparatus with full face piece operated in a pressure positive mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known.

COMBUSTION PRODUCTS:

Oxides of Carbon

6. ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:**

Small spills: Mop up, wipe up or soak up immediately. Remove to out of doors. Large spills: Evacuate area. Contain liquid; transfer to closed poly containers. Keep out of water supply.

7. HANDLING AND STORAGE**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Protect from freezing. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

OTHER PRECAUTIONS:

For industrial use only. Keep away from children. Keep containers closed while not in use.

8. EXPOSURE CONTROL/PERSONAL PROTECTION**PERSONAL PROTECTIVE EQUIPMENT**

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA approved respirator appropriate for vapor concentration at point of use.

PROTECTIVE GLOVES: Rubber or other impervious material with gauntlets.

VENTILATION: Local exhaust sufficient to keep exposure below TLV.

WORK / HYGENIC PRACTICES: Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

EYE PROTECTION: Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

EXPOSURE GUIDELINES: N/A

OTHER PROTECTIVE EQUIP: Boots, apron, lab coat or coveralls of impervious material, safety shower, eyewash.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
APPEARANCE AND ODOR: Dark brown liquid. Slight odor.
SOLUBILITY IN WATER: Complete
BOILING POINT: 103 deg C
VAPOR PRESSURE: Not Available
SPECIFIC GRAVITY: 1.1
MELTING POINT: N/A

PH: 14
VAPOR DENSITY: N/A
POUNDS PER GALLON: 9.2
OTHER PROPERTIES: N/A

10. STABILITY AND REACTIVITY

STABLE: Stable

CONDITIONS TO AVOID:
None known.

INCOMPATIBILITY:
Reactive Metals, Strong Acidic and Strong Oxidizing Compounds

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:
Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID:
None Known

11. TOXICOLOGICAL INFORMATION N/A

12. ECOLOGICAL INFORMATION N/A

13. DISPOSAL CONSIDERATIONS Dilute with large amounts of water and dispose to municipal or industrial waste treatment facility in accordance with applicable regulations.

14. TRANSPORT INFORMATION

DOT CLASS: Corrosive Liquid, Basic, Inorganic n.o.s. (Sodium Hydroxide)
HAZARD CLASS: 8
UN NUMBER: UN3266
PACKING GROUP: II
GUIDE NUMBER: 154
PROPER SHIPPING NAME: Corrosive Liquid, Basic, Inorganic n.o.s. (Sodium Hydroxide), 8, UN 3266, PG II (ERG #154)

15. REGULATORY INFORMATION No information available.

16. OTHER INFORMATION

HMS INFORMATION: HEALTH: 2 FLAMMABILITY: 0 REACTIVE: 0 PROTECTIVE: C
NFPA INFORMATION: TOXICITY: 2 FIRE: 0 REACTIVITY: 0 SPECIAL: C

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