NC12560

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H.M.I.S.
HEALTH 2
FLAMMABILITY 3
REACTIVITY 0
These ratings should be used only as part of fully implemented H.M.I.S. program.

# MATERIAL SAFETY DATA SHEET

## SECTION I

DATE OF PREPARATION 4/04/97

TRADE NAME BARGE A.P. CEM.

MANUFACTURER CODE I.D. J9003D

## SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT | % BY WGT | CAS NO. | | ALLOWABLE EXPOSURE LEVEL PPM | MG/CU.M. | | SARA 313 SKIN | VP mm Hg @ 20 DEG.C |
|---|---|---|---|---|---|---|---|---|
| TOLUENE | 50 | 108-88-3 | TLV-TWA | 50 | 188 | | SKIN X | 22 |
| | | | OSHA-PEL | 200 | 752 | | | |
| | | | OSHA-STEL | 500 | 1880 | 10 MIN | | |
| | | | OSHA-CEIL | 300 | 1128 | | | |
| | | | LFL 1.7 | | UFL 7.1 | | | |
| ETHYL ACETATE | | 141-78-6 | TLV-TWA | 400 | 1400 | | | 73 |
| | | | OSHA-PEL | 400 | 1400 | | | |
| | | | LFL 2.0 | | UFL 11.0 | | | |
| ALIPHATIC HYDROCARBON | | 64742-89-8 | MFR | 400 | | | | 12 |
| SILICA, AMORPHOUS-HYDRATED | | 63231-67-4 | TLV-TWA | | 10 | | | |
| | | | OSHA-PEL | | 6 | | | |

LFL = LOWER FLAMMABILITY LIMIT PERCENT
UFL = UPPER FLAMMABILITY LIMIT PERCENT
SKIN = SKIN ABSORPTION MUST BE CONSIDERED AS A ROUTE OF EXPOSURE
C-CEILING= ALLOW. EXPOSURE LEVEL SHOULD NOT BE EXCEEDED FOR ANY TIME PERIOD
MFR = MANUFACTURER RECOMMENDED EXPOSURE LIMIT
STEL = SHORT TERM EXPOSURE LIMIT
X-SARA 313 = CHEMICAL IS SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF S.A.R.A. 40 CFR PART 372

## SECTION III - HEALTH INFORMATION

**EFFECTS OF SHORT TERM OVEREXPOSURE**

**SWALLOWING**
Can cause gastrointestinal irritation, nausea, and vomiting. Aspiration of material into lung may cause chemical pneumonitis which can be fatal.

**INHALATION**
May cause nose or throat irritation. High concentrations may cause acute central nervous system depression characterized by headaches, dizziness, nausea and confusion.

**EYE**
May cause eye irritation.

**SKIN**
May cause defatting and irritation of the skin.

**EFFECTS OF REPEATED OVEREXPOSURE**
The OSHA Permissible Exposure Limit for amorphous silica is 20 Mppcf or PEL=_____80mg/M3_____ %SiO2

Reports have associated prolonged and repeated occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH.**
None currently known

## SECTION IV - FIRST AID AND EMERGENCY PROCEDURES

**SWALLOWING**
If swallowed do not induce vomiting. Call poison control center, hospital emergency room or physician immediately.

**INHALATION**
Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep warm and quiet. Get medical attention immediately.

**EYE**
Flush with large amounts of water, lifting upper and lower lids occasionally. Continue for at least 15 minutes. Get medical attention.

**SKIN**
Remove contaminated clothing, use waterless skin cleaner followed by soap and water wash. Obtain medical attention if irritation persists.
Remove contaminated clothing. Wash affected area with soap and water.

## SECTION IV - FIRST AID AND EMERGENCY PROCEDURES, (CONTINUED)

**KIN**
Obtain medical attention if irritation persists.
**OTES TO PHYSICIAN**
Any treatment that might be required for overexposure should be directed at the control of symptoms and the clinical conditions.

## SECTION V - PHYSICAL DATA

**BOILING RANGE** 168 DEG.F. ( 76 DEG.C.) TO 359 DEG.F.( 182 DEG.C.)

**VAPOR DENSITY** Heavier than air. **% VOLATILE BY VOLUME** 81

**EVAPORATION RATE** VOC 5.65 lb/gal less water & NEXS= 678 g/l less water CALCULATED
Slower than diethyl ether.

**WEIGHT LB./GAL.** 7.6 VOC 31.20 lb/gal solids 3744 g/l solids CALCULATED
**SPECIFIC GRAVITY** 0.9

All Physical data determined at 68 DEG. F. (20 DEG. C.) 760 mm Hg
* Negligibly Photochemically Reactive Materials

## SECTION VI - FIRE AND EXPLOSION DATA

**FPA FLAMMABILITY CLASSIFICATION** FLAMMABLE LIQUID - CLASS IB

**LASHPOINT** 25 DEG.F, SFCC ( -4 DEG.C,)
**XTINGUISHING MEDIA**
Use NFPA Class B fire extinguishers (carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Polymer foam is preferred for large fires.
**NUSUAL FIRE AND EXPLOSION HAZARDS**
During emergency conditions, overexposure to decompostion products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
WARNING! FLAMMABLE.
**PECIAL FIRE FIGHTING PROCEDURES**
Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

## SECTION VII - REACTIVITY DATA

**TABILITY**
Normally stable.
**CONDITIONS TO AVOID**
Avoid excessive heat (>115 F (46 C) and sources of ignition.
**NCOMPATABILITY (MATERIALS TO AVOID)**
Strong acids or alkaline materials.
**AZARDOUS DECOMPOSITION PRODUCTS**
Burning, including when heated by welding or cutting, will produce smoke, carbon monoxide and carbon dioxide. In addition, hydrogen chloride, chlorine may be generated.
**AZARDOUS POLYMERIZATION**
Will not occur
**CONDITIONS TO AVOID**
None known

## SECTION VIII - ENVIRONMENTAL INFORMATION

**TEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**
Keep spectators away. Eliminate all ignition sources (flames, hot surfaces, and sources of electrical, static or frictional sparks). Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered metal containers for recovery or disposal, or remove with inert absorbent. Use only non-sparking tools. Place absorbent diking materials in covered metal containers for disposal. Prevent contamination of sewers, streams, and groundwater with spilled material or used absorbent.
**ASTE DISPOSAL**
Dispose in accordance with federal, state and local regulations.
**CRA CLASSIFICATION**
This product, if discarded directly, would be classified a hazardous waste based on its ignitability characteristic, i.e. has a flash point of 140 deg. F.(60 deg.C) or less. The proper RCRA classification would be D001.
**NVIRONMENTAL HAZARDS**
None known

## SECTION IX - PERSONAL PROTECTION INFORMATION

**ESPIRATORY PROTECTION**
Proper selection of respiratory protection depends upon many factors including duration/level of exposure and conditions of use. In general exposure to organic chemicals such as those contained in this product may not require the use of respiratory protection if used in well ventilated areas. In restricted ventilation areas a NIOSH approved chemical cartridge respirator may be required. Under certain conditions, such as spraying, a mechanical prefilter may also be required. In confined areas use a NIOSH/MSHA approved air supplied respirator. If the TLV's listed in Section II

## SECTION IX - PERSONAL PROTECTION INFORMATION (CONTINUED)

**RESPIRATORY PROTECTION**
are exceeded use a properly fitted NIOSH/MSHA approved respirator with an appropriate protection factor. Refer to OSHA 29 CFR 1910.134 "Respiratory Protection", and "Respiratory Protection A Manual And Guideline, American Industrial Hygiene Assoc."

**VENTILATION**
Provide local exhaust ventilation in sufficient volume and pattern so as to maintain exposures below nuisance dust limits and permissible exposure limits which may be listed in Section II. Refer to Industrial Ventilation - A Manual for Recommended Practice - American Conference Of Governmental Industrial Hygienists.

**HAND PROTECTION**
Solvent impermeable gloves are required for repeated or prolonged contact.

**EYE PROTECTION**
Wear safety spectacles.

**OTHER PROTECTIVE EQUIPMENT**
Not likely to be needed.

## SECTION X - SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**
Do not store above 115 deg.F (46 deg.C) store large quantities in compliance with OSHA 29CFR1910.106.

**OTHER PRECAUTIONS**
Do not take internally. Close container after each use.
Empty containers must not be washed and re-used for any purpose.
Containers should be grounded and bonded to the receiving container.
Do not weld, braze or cut on empty container.
Never use pressure to empty. Drum is not a pressure vessel.

## SECTION XI - OTHER INFORMATION

**TRANSPORTATION INFORMATION**

| MODE | PROPER SHIPPING NAME | CLASS | I.D.# | PKG GRP |
|---|---|---|---|---|
| ATA AIR) | ADHESIVES<br>PASS:305-5L;CARGO:307-60L<br>LABEL:FLAMMABLE LIQUID | 3 | UN1133 | II |
| OT (HM-181) DOMESTIC SURFACE) | ADHESIVES<br>NAERG: 127 | 3 | UN1133 | II |
| MDG CODE OCEAN) | ADHESIVES, FLAMMABLE LIQUID<br>LABEL CLASS:3<br>IMDG PAGE 3174;EMS 3-05 | 3.2 | UN1133 | II |

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The Corporate Safety and Environmental Affairs Department is responsible for the preparation of this Material Safety Data Sheet.

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