

Sovereign Commercial Group Inc  
 P.O. Box 1092  
 Buffalo, NY 14240  
 HOT EMERGENCY (800)424-9300 OR (703)527-3887  
 INFORMATION PHONE NO. 800-888-4910 M-F 7:30 AM 5:30 PM

H.M.I.S.-  
 HEALTH 2  
 FLAMMABILITY 3  
 REACTIVITY 0

These ratings should be used only  
 as part of full implemented  
 H.M.I.S. program.

## M A T E R I A L   S A F E T Y   D A T A   S H E E T

### SECTION 1 - PRODUCT INFORMATION

DATE OF PREPARATION 8/23/05

TRADE NAME..... BARGE AP CEMENT CASE/6GAL

PHYSICAL FORM: SOLVENT

MANUFACTURER CODE I.D. J9003D05

### SECTION 2 - HAZARDOUS INGREDIENTS/COMPOSITION INFORMATION

INGREDIENT	% BY WGT	CAS NO.	ALLOWABLE EXPOSURE LEVEL		SARA 313	VP mm Hg @ 20 DEG.C
			PPM	MG/CU.M.		
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
N-HEPTANE		142-82-5	TLV-TWA	400	1600	40
			TLV-STEL	500	2000	
			OSHA-PEL	400	1600	
			OSHA-STEL	500	2000	
			LFL	1.0	UFL 7.0	
SILICA, AMORPHOUS HYDRATED		TSRN9227P01	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 3 - HAZARDS IDENTIFICATION

#### 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

**SECTION 3 - HAZARDS IDENTIFICATION (Continued)****INHALATION**

central nervous system depression characterized by headaches, dizziness, nausea and confusion.

**EYE**

May cause eye irritation.

**SKIN**

Primary skin irritant.

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

Repeated overexposure to toluene may cause liver damage.

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.**

Toluene has been found to cause kidney, lung and spleen damage in laboratory animals.

**SECTION 4 - FIRST-AID MEASURES****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. Immediately flush the contaminated area with large amounts of water. Remove contaminated clothing as water is applied. Consult a physician.

**NOTES TO PHYSICIAN**

Any treatment that might be required for overexposure should be directed at the control of symptoms and the clinical conditions.

**SECTION 5 - FIRE-FIGHTING MEASURES**

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

**FLASHPOINT** 25 DEG.F, SFCC ( -4 DEG.C, )

**EXTINGUISHING 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.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

WARNING] FLAMMABLE.

**SPECIAL FIRE FIGHTING PROCEDURES**

Firefighters should wear self-contained breathing apparatus. 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 6 - ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**

Wear respirators, eye, hand, and body protection appropriate for the

**SECTION 6 - ACCIDENTAL RELEASE MEASURES (Continued)****STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**

size of the spill and the exposures encountered.  
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.

**WASTE DISPOSAL**

Dispose in accordance with federal, state and local regulations.

**RCRA 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.

**ENVIRONMENTAL HAZARDS**

None known

**SECTION 7 - HANDLING AND STORAGE****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 8 - EXPOSURE CONTROLS****RESPIRATORY 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 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**

Eyewash facility, safety shower.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**BOILING RANGE** 190 DEG. F. ( 88 DEG. C.) TO 240 DEG. F. ( 116 DEG. C.)

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (Continued)**

VAPOR DENSITY Heavier than air. % VOLATILE BY VOLUME 82

EVAPORATION RATE VOC 5.64 lb/gal less water & NPRS\* 677 g/l less water CALCULATED  
Slower than diethyl ether.

WEIGHT LB./GAL. 7.6 VOC 31.21 lb/gal solids 3745 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 10 - STABILITY AND REACTIVITY****STABILITY**

Normally stable.

**CONDITIONS TO AVOID**

Avoid excessive heat (>115 F (46 C) and sources of ignition.

**INCOMPATIBILITY (MATERIALS TO AVOID)**

Strong acids or alkaline materials.

Oxidizing materials.

**HAZARDOUS 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.

**HAZARDOUS POLYMERIZATION**

Will not occur

**CONDITIONS TO AVOID**

None known

**SECTION 11 - TOXICOLOGICAL INFORMATION**

No information available.

**SECTION 12 - ECOLOGICAL INFORMATION**

No information available.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

See Section 6.

**SECTION 14 - TRANSPORT INFORMATION**

ITEM: J9003D05

DESC/SIZE: BARGE AP CEMENT CASE/6GAL

MODE	PROPER SHIPPING NAME	CLASS	I.D.#	PKG	GRP
AIR)	ADHESIVES	3	UN1133	II	
	CARGO AIR ONLY				
	NAERG: 3L				
OT (HM-181)					
DOMESTIC SURFACE)	ADHESIVES	3	UN1133	II	
	NAERG: 128				
MDG CODE					
OCEAN)	ADHESIVES, LTD QTY	3	UN1133	II	

NOTE) The assignment of Proper Shipping Names is in part a function of the size of the product container and the transport mode. For example, the Proper Shipping Name for a bulk container can differ significantly from the Proper Shipping Name for the same product packaged in a non-bulk container. This can also be true for products shipped via different modes of transportation (i.e. ground, air, ocean). The descriptions provided above

**SECTION 14 - TRANSPORT INFORMATION (Continued)**

are intended to provide some guidance. However, these descriptions may not apply to your package size or mode of shipment. The U.S. Code of Federal Regulations, 49 CFR - Transportation, regulations, and the policies established by some transporters, require that the shipper properly classify and assign a Proper Shipping Name, and label, mark and package the material properly. Therefore, the user of this information is cautioned to consult with applicable regulations, and with qualified advisors prior to the repackaging and or reshipment of this or other any product which contain this product.

**SECTION 15 - REGULATORY INFORMATION**

**WARNING:** This product contains

**TOLUENE;**

a chemical known to the State of California to cause birth defects or other reproductive harm.

**INGREDIENT                      CAS NO.    DETAIL INVENTORY LIST INFORMATION**

<b>TOLUENE</b>	<b>108-88-3</b>	<b>TSCA(8a CAIR) TSCA(8a PAIR) TSCA(8d) DSL</b>
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<b>ETHYL ACETATE</b>	<b>141-78-6</b>	<b>TSCA(12b) TSCA(4) TSCA(8a PAIR) TSCA(8d) DSL</b>
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<b>ALIPHATIC HYDROCARBON</b>	<b>64742-89-8</b>	<b>DSL</b>
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<b>N-HEPTANE</b>	<b>142-82-5</b>	<b>TSCA(12b) TSCA(4a) TSCA(8a PAIR) TSCA(8d) DSL</b>
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<b>SILICA, AMORPHOUS HYDRATED</b>	<b>TSRN9227P01</b>	<b>DSL</b>
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**DETAIL INVENTORY LIST DESCRIPTION**

**TSCA/Toxic Substances Control Act**  
**(12b) Notices of Export**  
**(4) Test Rules**  
**(4a) TSCA 4a**  
**(8a CAIR) Comprehensive Assessment Information Rules**  
**(8a PAIR) Preliminary Assessment Information Rules**  
**(8d) Health and Safety Reporting Rules**  
**DSL/Canadian Domestic Substance List**

**SECTION 16 - OTHER INFORMATION**

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods

**SECTION 16 - OTHER INFORMATION (Continued)**

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DUABAUG CORPORATION                    >  
18 SCHOOL ST  
NORTH BROOKFIELD                    MA  
   01535-1920