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H.M.I.S.  
HEALTH 2  
FLAMMABILITY 0  
REACTIVITY 1  
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 9/05/06

TRADE NAME..... MIRAFOIL

PHYSICAL FORM: 100% NV - LIQUID

MANUFACTURER CODE I.D. L9213S

(Formerly a Sovereign Specialty Chemical Inc Product)

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.
						SKIN
ALUMINUM	< 5	7429-90-5	TLV-TWA OSHA-PEL	10 5	X	
BENZOPHENONE		119-61-9	NONE ESTABLISHED			

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

May cause gastrointestinal irritation.

INHALATION

May cause respiratory irritation.

EYE

May cause eye irritation.

SKIN

May cause skin sensitization (allergic reaction).

May cause skin irritation.

EFFECTS OF REPEATED OVEREXPOSURE

Repeated contact may cause dermatitis.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH.

None currently known

SECTION 4 - FIRST-AID MEASURES

SWALLOWING

If swallowed call Poison Control Center, Hospital Emergency Room, or  
Physician immediately.

INHALATION

Remove to fresh air immediately. If breathing has stopped, give artifi-

#### SECTION 4 - FIRST-AID MEASURES (Continued)

##### INHALATION

Respiratory distress. 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 immediately.

##### SKIN

Remove contaminated clothing, use waterless skin cleaner followed by soap and water wash. Obtain medical attention if irritation persists.

##### 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 Not Applicable

FLASHPOINT Not applicable

##### 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

This product contains aluminium; contact with halogenated hydrocarbons may cause violent reaction and or explosion.

##### SPECIAL FIRE FIGHTING PROCEDURES

None known

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

##### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Refer to Section 8 and don respirators, eye, hand, and body protection appropriate for the size of the spill and the exposures encountered.

##### WASTE DISPOSAL

Dispose in accordance with federal, state and local regulations.

##### ENVIRONMENTAL HAZARDS

None known

#### SECTION 7 - HANDLING AND STORAGE

##### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Do not store above 90 degrees F.

##### OTHER PRECAUTIONS

Do not take internally. Close container after each use. Avoid skin contact. Keep away from children. 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

Use general dilution and local exhaust ventilation in sufficient volume

**SECTION 8 - EXPOSURE CONTROLS (Continued)**

**VENTILATION**

and pattern to keep concentrations of hazardous ingredients listed in Section II below the lowest exposure limit stated. Fumes emitted while baking this product must be properly vented. Refer to "Industrial Ventilation a Manual of Recommended Practice"-ACGIH.

**HAND PROTECTION**

Not likely to be needed.

**EYE PROTECTION**

Wear safety glasses meeting the specifications of ANSI Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specifications of ANSI Z87.1 should be worn whenever there is a possibility of splashing or other contact with the eyes.

**OTHER PROTECTIVE EQUIPMENT**

Eyewash facility, safety shower.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**BOILING RANGE** 572 DEG.F. ( 300 DEG.C.)

**VAPOR DENSITY** Not applicable.      **% VOLATILE BY VOLUME**      0

**EVAPORATION RATE**      **VOC**    .02 lb/gal less water& NPRS\*      **2 g/l less water**      **CALCULATED**  
Not applicable.

**WEIGHT LB./GAL.**    8.9    **VOC**    .02 lb/gal solids      **2 g/l solids**      **CALCULATED**  
**SPECIFIC GRAVITY**    1.1

All Physical data determined at 68 DEG. F. (20 DEG. C.) 760 mm Hg

\* Negligibly Photochemically Reactive Materials

**SECTION 10 - STABILITY AND REACTIVITY**

**STABILITY**

This material is normally stable, However, inhibitor depletion, exposure to heat, radiation (including sunlight), impurities, and oxidizers may initiate hazardous polymerization. The resulting heat and pressure may cause containers to rupture or explode. Maintain an airspace within storage containers. The preferred storage temperature is 68-72 deg.F (20-22 deg. C). This material should be transferred in lines made of stainless steel or aluminium. All piping and pumps should also be stainless steel. Avoid the use of iron, copper or their alloys which may result in hazardous polymerization or color degradation. Solvent resistant plastics, such as Tygon may be used. The tubing should be opaque to avoid curing in the lines. Pumps should be low shear, such as centrifugal, peristaltic, diaphragm, or low shear progressive cavity pumps. The use of high shear pumps (gear or piston) should be avoided. Clear pumps and lines with compressed air after transfer.

**CONDITIONS TO AVOID**

Avoid storage above 90 F, exposure, to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.

**INCOMPATIBILITY (MATERIALS TO AVOID)**

Strong acids or alkaline materials.

Oxidizing materials.

Avoid contact with halogenated hydrocarbons in situations in which pressures may be elevated or in which reactions may be enclosed.

Free radical initiators.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Burning, including when heated by welding or cutting, will produce smoke, carbon monoxide and carbon dioxide. In addition, oxides of nitrogen, may be generated.

**HAZARDOUS POLYMERIZATION**

May occur

**CONDITIONS TO AVOID**

Avoid temperatures > 90 F (32C), loss of dissolved air, loss of inhibitor,

**SECTION 10 - STABILITY AND REACTIVITY (Continued)**

CONDITIONS TO AVOID  
or contamination.

**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**

<b>ITEM:</b>	<b>L9213S</b>	<b>DESC/SIZE: MIRAFOIL</b>			
MODE	PROPER SHIPPING NAME	CLASS	I.D.#	PKG	GRP
IATA					
(AIR)	PAINT, NOT RESTRICTED				
DOT (HM-181)					
(DOMESTIC SURFACE)	PAINT, NOT REGULATED				
IMDG CODE					
(OCEAN)	PAINT, NOT REGULATED				

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 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**

All ingredients in this product are listed on the US TSCA Inventory.

INGREDIENT	CAS NO.	DETAIL INVENTORY LIST INFORMATION
ALUMINUM	7429-90-5	DSL
BENZOPHENONE	119-61-9	DSL
DETAIL INVENTORY LIST DESCRIPTION		
DSL/Canadian Domestic Substance List		

**SECTION 16 - OTHER INFORMATION**

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

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 mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

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