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

PRODUCT CLASS ALKYD PAINT DATE OF PREPARATION 4/25/94  
 TRADE NAME CELLU-TONE ALKYD SATIN ENAMEL RED BASE  
 MANUFACTURER CODE I.D. S 5794 030990 A

## SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	% BY WGT	CAS NO.	ALLOWABLE EXPOSURE LEVEL		SARA 313	VP mm Hg @ 20 DEG. C
			PPM	MG/CU.M.		
STODDARD SOLVENT	10	8052-41-3	TLV-TWA	100	525	
			OSHA-PEL	100	525	
			LFL	.8		
MINERAL SPIRITS	20	64742-88-7	TLV-TWA	100	525	2
			OSHA-PEL	100	525	
			LFL	1.0	UFL 7.0	
TITANIUM DIOXIDE	<	5	13463-67-7	TLV-TWA	10	
				OSHA-PEL	10	
SILICA, CRYSTALLINE	<	1	14808-60-7	TLV-TWA	0.1000	
				OSHA-PEL	0.1000	

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

Repeated and prolonged occupational overexposure to crystalline silica may cause silicosis, a progressively disabling lung disease. Preexisting respiratory conditions may be aggravated by exposure to crystalline silica. 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.

Titanium dioxide IS NOT listed as a potential carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, OSHA, or A.C.G.I.H. Dry titanium dioxide in a 24-month inhalation study with rats revealed a significant increase in benign and malignant lung tumors in the group exposed to 250mg/M3 respirable TiO2 dust. At lower exposure levels, this significant effect was not observed. The normal clearance mechanisms of the lungs may have been overwhelmed at the 250mg/M3 exposure level, and this may have contributed to the tumor formation. These results may not be directly relevant to the workplace where occupational exposure limits are observed. At the TLV the TiO2 manufacturer concludes that there is no significant hazard for man. The International Agency for Research on Cancer considers crystalline silica to have limited evidence of carcinogenicity in humans and sufficient evidence in experimental animals (IARC Group 2A).

## SECTION IV - FIRST AID AND EMERGENCY PROCEDURES

### SWALLOWING

If swallowed do not induce vomiting. Call poison control center, hospital

**SECTION IV - FIRST AID AND EMERGENCY PROCEDURES; (CONTINUED)****SWALLOWING**

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. Wash affected area with soap and water. 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 V - PHYSICAL DATA**

<b>BOILING RANGE</b>	280 DEG.F. ( 138 DEG.C.) TO	400 DEG.F.( 204 DEG.C.)	
<b>VAPOR DENSITY</b>	Heavier than air.	<b>% VOLATILE BY VOLUME</b>	45
<b>EVAPORATION RATE</b>	Slower than diethyl ether.	<b>VOC</b>	3.14 lb/gal less water & NFRS* 377 g/l less water CALCULATED
<b>WEIGHT LB./GAL.</b>	10.0	<b>VOC</b>	5.80 lb/gal solids 696 g/l solids CALCULATED
<b>SPECIFIC GRAVITY</b>	1.2		

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

\* Negligibly Photochemically Reactive Materials

**SECTION VI - FIRE AND EXPLOSION DATA**

**NFPA FLAMMABILITY CLASSIFICATION** COMBUSTIBLE LIQUID - CLASS II

**FLASHPOINT** 106 DEG.F, SFCC ( 41 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.

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and flame. Closed containers may explode when exposed to extreme heat.

**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 VII - REACTIVITY DATA****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.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Burning, including when heated by welding or cutting, will produce smoke, carbon monoxide and carbon dioxide.

**HAZARDOUS POLYMERIZATION**

Will not occur

**CONDITIONS TO AVOID**

None known

**SECTION VIII - ENVIRONMENTAL INFORMATION****STEPS 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.

**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 IX - PERSONAL PROTECTION INFORMATION****RESPIRATORY PROTECTION**

Proper selection of respiratory protection depends upon many factors

**SECTION IX - PERSONAL PROTECTION INFORMATION; (CONTINUED)**

**RESPIRATORY PROTECTION**

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**

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.  
Do not breathe sanding dust.  
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**

**US DOT HAZARDOUS MATERIAL INFORMATION**

PROPER SHIPPING NAME: PAINT

HAZARD CLASS: COMBUSTIBLE LIQUID

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. WHILE THE INFORMATION IS BELIEVED TO BE RELIABLE, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SINCE THE USE OF THIS INFORMATION AND THE CONDITIONS AND USE OF THIS PRODUCT ARE CONTROLLED BY THE USER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT. The Corporate Safety and Environmental Affairs Department is responsible for the preparation of this Material Safety Data sheet.

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