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H.M.I.S.	
HEALTH	1*
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 BASE 1
MANUFACTURER CODE I.D. S 5791 100791 C

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	% BY WGT	CAS NO.	ALLOWABLE EXPOSURE LEVEL		SARA 313	VP
			PPM	MG/CU.M.	MPPCF SKIN	mm Hg @ 20 DEG.C
STODDARD SOLVENT	15	8052-41-3	TLV-TWA OSHA-PEL LFL	100 100 .8	525 525	
MINERAL SPIRITS	5	64742-88-7	TLV-TWA OSHA-PEL LFL	100 100 1.0	525 525 UFL 7.0	2
PETROLEUM DISTILLATE HYDROTREATED LIGHT	5	64742-47-8	NONE ESTABLISHED			
SILICA, CRYSTALLINE	< 1	14808-60-7	TLV-TWA OSHA-PEL		0.1000 0.1000	
TITANIUM DIOXIDE	20	13463-67-7	TLV-TWA OSHA-PEL		10 10	
SILICA, AMORPHOUS HYDRATED	< 5	7631-86-9	TLV-TWA OSHA-PEL		10 6	
NAPHTHA (PETROLEUM) HEAVY ALKYLATE	5	64741-65-7	MFR	100	525	

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

SECTION III - HEALTH INFORMATION; (CONTINUED)**SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH.**

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 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

BOILING RANGE	280 DEG.F. (138 DEG.C.) TO	484 DEG.F.(251 DEG.C.)	
VAPOR DENSITY	Heavier than air.	% VOLATILE BY VOLUME	50
EVAPORATION RATE	Slower than diethyl ether.	VOC	3.49 lb/gal less water & NFRS* 419 g/l less water CALCULATED
WEIGHT LB./GAL.	10.0	VOC	7.03 lb/gal solids 844 g/l solids CALCULATED
SPECIFIC GRAVITY	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 115 DEG.F, SFCC (46 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**

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

SECTION VIII - ENVIRONMENTAL INFORMATION; (CONTINUED)

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

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 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 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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