

MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME:
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HMS HAZARD RATINGS:
 HEALTH: #2
 FLAMMABILITY: 3
 REACTIVITY: 1
 PERSONAL PROTECTION: J,X
 DATE OF PREPARATION:
 01/15/2008

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: 050.43
 PRODUCT NAME: ENAMEL HARDENER LOW VOC
 PRODUCT CLASS: Isocyanate Activator

SECTION II - HAZARDOUS INGREDIENTS

DESCRIPTION	CAS NO.	PERCENT By Vol.	OSHA EXP LIMITS(ppm) Ceil	OSHA EXP LIMITS(ppm)		ACGIH TLV(ppm)		SARA mg/m3	VP,mmHg @77 F
				STEL	PEL	STEL	TWA		
N-BUTYL ACETATE	123-86-4	8.00	N	200	150	200	150	710.00	8.40
ACETONE	67-64-1	32.00	N	3000	1000	1000	750		180.00
METHOXY PROPANOL ACETATE	108-65-6	9.00	N				100		1.80
Xylol	1330-20-7	7.20	N	300	200	100	150	435.00	Y 9.50
ETHYLBENZENE	100-41-4	1.80	N		125	100	125	100	Y 7.10
ISOPHORONE DIISOCYANATE	4098-71-9	3.00	N					0.02	

Contains less than .12% Hexamethylene Diosocyanate (HDI) CAS No. 822-06-0. ACGIH TLV for HDI is .005 ppm TWA
 DOES NOT CONTAIN CHLOROFLUOROCARBONS (CFC's) OR OTHER OZONE DEPLETING SUBSTANCES (ODS) IF USED UNDER NORMAL CONDITIONS.
 DOES NOT CONTAIN LEAD OR OTHER REGULATED METALS.
 ALL PERSONNEL HANDLING THIS PRODUCT MUST BE PROTECTED FROM ABOVE INGREDIENTS BY KEEPING EXPOSURE LIMITS BELOW MAXIMUM.
 IF THIS PRODUCT IS A PART OF A MULTI-COMPONENT COATING, PRECAUTIONS FOR ALL COMPONENTS MUST BE OBSERVED AFTER MIXING.

CARC+ - 'Y' indicates that this ingredient is a suspected or is a known carcinogen. Refer to SECTION V for further details.

SECTION III - PHYSICAL DATA

BOILING RANGE: 132-295 F (56-146 C) VAPOR DENSITY: Heavier than air
 EVAPORATION RATE: Slower Than Ether PERCENT VOLATILE BY VOLUME: 62.80
 VOC: 3.22 #/Gal or 389 gr/li, water and VOC exempt solvents excluded, based on EPA Method 24. Wt/Gal: 8.04
 Actual VOC is 2.19 #/gal. This is the total regulated VOC per gallon of paint if applied without addition of regulated solvents.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA - FLAMMABLE LIQUID - NFPA CLASS IB FLASH POINT: 1 F (-17 C)
 DOT - FLAMMABLE LIQUID OR SOLID LEL: 1.00
 EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Isolate from heat, sparks, electrical equipment and open flame. Closed containers may explode when exposed to extreme heat. Special precautions must be exercised when applied to hot surfaces as fumes and explosive vapors may be generated.
 SPECIAL FIREFIGHTING PROCEDURES: Firefighters must wear respiratory equipment to avoid inhalation of vapors. Use Water fog to cool closed containers to avoid explosion due to heat build up.
 UN Classification No.: PAINT - UN 1263*

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: EYE CONTACT: Redness, blurred vision, severe irritation.

INHALATION: Dizziness, breathing difficulty, headache, loss of coordination, unconsciousness.

SKIN CONTACT: Temporary irritation and dermatitis caused by defatting action on skin.

INGESTION: Can cause gastrointestinal irritation, vomiting, nausea and diarrhea.

CAUTION: Overexposure to vapors can cause injury to the liver, kidneys, & possibly blood.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Respiratory, skin & kidney diseases.

PRIMARY ROUTES OF ENTRY: Dermal, ingestion, inhalation.

EMERGENCY AND FIRST AID PROCEDURES: CONSULT A PHYSICIAN IN ALL CASES.

EYE CONTACT: Flush with large quantities of water for 15 minutes.

INHALATION: Move to fresh air, if breathing stops, apply artificial respiration and administer oxygen if needed.

SKIN CONTACT: Remove contaminated clothing and wash affected skin with soap and water.

INGESTION: Do not induce vomiting. May cause chemical pneumonitis. CONSULT A PHYSICIAN.

OTHER HEALTH WARNING: Chemicals that are known, or are suspected carcinogen, if formulated in this product, are listed under Section II. It may also inadvertently contain, though not intentionally added, trace amounts of chemicals that are not listed that may cause cancer, birth defect or reproductive harm. Expectant mothers must not work with this or other chemicals without consulting a physician.

SECTION VI - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and of metals listed, if any, under section II, and other potentially dangerous vapors and fumes.

CONDITIONS TO AVOID: High heat, sources of ignition, poor ventilation, corrosive atmosphere.

INCOMPATIBILITY (materials to avoid): Alkaline materials, strong acids and oxidizing agents.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIALS IS RELEASED OR SPILLED: Eliminate ignition sources, provide good ventilation, dike spill area and apply inert absorbent to spilled liquid.

WASTE DISPOSAL METHOD: Dispose in accordance with local, state and Federal regulations.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Use NIOSH approved cartridge or self contained respirator or gas mask suitable to keep airborne mists and vapor concentrations below the TWA TLV.

VENTILATION: Use explosion proof mechanical ventilation to keep vapor concentration below TLV for all personnel.

PROTECTIVE GLOVES: Use impermeable, solvent-resistant gloves.

EYE PROTECTION: Use splash proof safety goggles or shields for eye protection.

OTHER PROTECTIVE EQUIPMENT: Use protective clothing, aprons & head caps during application.

HYGIENIC PRACTICES: Wash hands thoroughly after handling this product and before eating.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Use non-sparking tools when handling this material. Avoid exposure to high heat and sources of ignition. Store in cool, well ventilated area. Vapors may collect in low areas.

OTHER PRECAUTIONS: Store and use in non smoking areas. Keep covered when not in use and keep out of reach of children. Do not drill, cut, weld, or braze empty containers. The dried film of this product may become dust nuisance when removed by sanding, blasting, or grinding; observe tlv as dust when these procedures are performed.

SECTION X - OTHER INFORMATION

REGULATORY INFORMATION: Users must determine the suitability of this product in meeting any Federal, State, or Local emission restrictions. It is also the user's responsibility that the reporting requirements of any and all agencies are met.