

Material Safety Data Sheet		HMIS HAZARD RATING		Part A			
May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200 Standard must be consulted for specific requirements		Health	1	FED-STD-313 Latest Revision			
		Flammability	1				
		Reactivity	0				
		PPE	H				
OMB registration Number None		Type of Data Sheet New Revised x Supercedes 10-01-2008		UN number			
SECTION I General Information		Number of revised section:					
Commercial ID (as on label and list) E-400 / E-400X Part A		Government contract or order number		ITAR regulated License Required for Export			
Manufactures Name Flamemaster Corporation		National Stock Number /CAN LSN /SIN		[REDACTED]			
Manufactures Address (No Street, City, State and zip) Chem Seal Division 13576 Desmond Street Pacoima, CA 91333-4510		Part number, product and or trade name E-400 / E-400X Part A		Hazardous items Yes No X			
Emergency Telephone Number (800) 424-9300 CHEM TREC		Information telephone number (818)890-1401		Date prepared 02-01-2010			
Mfr. CAGE code 14439		Name of Preparer Leandro I. Rodriguez		Signature of preparer On file			
NRC License number N / A		EPA Registration Number N / A		Specification Number N / A			
Spec. Type N / A		Spec. Grade. N / A		Spec. Class N / A			
SECTION II - Hazardous Ingredients SARA III Information*							
Hazardous Components (Specific chemical identity: Common Name (s))		Other limits	By % weight	OSHA PEL	ACGIH TLV	NIOSH #	CAS #
Bisphenol A Diglycidyl Ether Resin		none	27 - 30	N / E	N / E	SL6475000	25068-08-6
Epichlorohydrin polyglycol (reaction product)		N / E	12 - 14	N / E	25 ppm		26142-30-3
N-Butylglycidyl Ether		none	1 - 4	50 ppm	25 ppm	TX4200000	2426-06-6
Titanium dioxide		unknown	1 - 3	15 mg / m³	15 mg / m³		98084-96-9
Amorphous Silica		unknown		10 mg / m³	10 mg / m³		7631-86-9
All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Par. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST							
* Indicates toxic chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372							
SECTION III Physical /Chemical Characteristics							
Boiling Point >200 C		Specific Gravity (H ₂ O = 1) 1.48		Auto ignition Temperature N / A		Decomposition Temperature N / A	
Vapor Pressure (mm hg) N / A		PH 8.5		% Volatile by Volume 0.90		Magnetism (milligauss) N / A	
Vapor Density Air = 1 < 1		Evaporation rate (Butyl Acetate = 1) 0.01		Viscosity 1000 / 10000 Poises		Corrosion Rate: N / A	
Solubility in Water Insoluble		Melting Point Liquid at room temperature		Blank		Temp Material Reference	
Appearance and Odor: White / Off white viscous fluid / Sweetly aromatic						Volatile Organic Compound VOC N / A	
SECTION - IV Fire and Explosion Hazard Data							
Flash Point (method used) > 79° C ----- > 173° F TCC				Flammable Limits N / A		LEL none	UEL none
Extinguishing Methods: Dry chemical, CO₂, Foam, water fog							
Special Fire Fighting Procedures In confined areas wear self contained breathing apparatus, cool exposed containers with fog nozzles							
Unusual Fire and Explosion Hazards Vapors are heavier than air and will collect at low points see (Section V) Air supplied respirators should be worn							
SECTION V - Reactivity Data							
Stable X	Unstable	Conditions to avoid High heat			Neutralizing Agents Amines Organic Acids		
Incompatibility (materials to avoid) Base Compounds and Amines				Hazardous Decomposition products Oxides of carbon, nitrogen Aldehydes Phenolics soot			
Hazardous Polymerization May Occur		Will not Occur X		Conditions to avoid Strong Bases			

We have obtained the information in this MSDS from sources that we believe to be reliable. However since much of this information has been received from sources outside of the company, it is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.

ITAR regulated License Required for Export

ITAR regulated License Required for Export

FED-STD-313 Latest Rev		Material: E-400 / E-400 X Base coat part A		Date 02-01-2010	Page 2	Part A
SECTION VI - Health Hazard Data						
Route (s) of entry	Inhalation? yes		Skin? no		Ingestion? yes	
Health Hazards (Acute and Chronic) Non established (possible skin irritation upon contact with resulting dermatitis. For sensitive individuals)						
Redness and itching of skin may occur on repeated exposure. Dermatitis may result from frequent or prolonged exposure.						
Carcinogenicity:		NTP? NO		IARC Monographs? NO		OSHA Regulated? NO
Medical conditions generally aggravated by exposure: Eczema or previous skin irritation or allergy						
Signs and symptoms of exposure: Eye irritation, tearing redness. Itching and redness of skin						
Emergency and first aid Procedures: Eyes: Flush with large amounts of water consult physician. Skin: wash with soap and water. Ingestion: If swallowed get immediate medical attention.						
SECTION VII - - Precautions for Safe Handling and Use						
Steps to be taken in the event the material is released or spilled: Scoop up and transfer to container for reaction with curing agent. Clean up remainder with sand or sweeping compound. Wipe with Methyl Ethyl Ketone Wash area with soap and water. Wear appropriate clothing and protective equipment. (section VIII)						
Waste disposal method: React with curing agent and dispose of as solid waste per Federal, State and local regulations						
Precautions to be taken handling or storing: Store below 120 degrees in closed containers dry area away from acids, oxidizers, open flame or other possible ignition sources						
Other precautions: Avoid contact with contaminated clothing Wash hands thoroughly after handling this product prior to eating , drinking or smoking						
SECTION VIII - Control Measures						
Respiratory protection (specify type) When applying in any circumstances likely to produce airborne levels of solvent vapors in excess of the TLV or when mechanically abrading the cured material use an MSHA/NIOSH approved organic vapor cartridge or air supplied respirator. Use an MSHA/NIOSH approved organic vapor cartridge or air supplied respirator. when working with hot material						
Ventilation:	Local exhaust Air	Special: N / A	Mechanical (general) Fan	Other Hand lotions and /or skin creams		
Protective gloves Type: Nitrile or Neoprene gloves			Eye protection Type: Chemical goggles / face shield			
Other protective clothing or Equipment Appropriate clothing to avoid prolonged skin contact						
Work /Hygienic practices: Safety shower, eye wash station and washing facilities should be available						
SECTION IX – Transportation			ITAR regulated License Required for Export			
Applicable regulations:						
49CFR X	IMO X	IATA X	Military Air (AFR 71-4)	IMDG	Marine Pollutant No	UN number UN 1263
Shipping name: Paint related material			ID Number N / A	Reportable Quantity N / A		
Unit container Can / Pail			DOT Spec. container N / A	Net explosive weight: N / A		
Hazard class: Class 3 – Packaging group II				Labels: FLAMABLE LIQUID		
DOT Exempt /DOD CCN N / A				Limited Quantity: N / A		
Aerosol propellant (s) N / A				U.S. Postal regulations: 124.122 Harmful mater		
Disposal Information: Incineration or land fill as is, or react with Part B and dispose as non hazardous solid waste						
EPA hazardous waste number /Code: D-001 ignitable			Hazardous waste characteristics: Sludge			
Disposal methods: Incineration or land fill, The material must be handled, packaged and transported according to Federal, State or local regulations						

We have obtained the information in this MSDS from sources that we believe to be reliable. However since much of this information has been received from sources outside of the company, it is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.

ITAR regulated License Required for Export