

SECTION I - IDENTIFICATION OF PRODUCT AND COMPANY:

PRODUCT IDENTIFIER: ENAMO GRIP Base

GHS PRODUCT IDENTIFIED: Global Harmonized System #3208.90.000

CHEMICAL TYPE: Two-part, Hydroxyl functional polyol

MANUFACTURER: SUPERIOR PRODUCTS INT'L II, INC.

ADDRESS: 10835 W. 78th St., Shawnee, KS 66214

PRODUCT USE: Applied to provide a tough, protective topcoat

EMERGENCY TELEPHONE NUMBER: **800/424-9300; 202/483-7616****SECTION II - HAZARD IDENTIFICATION:**

The product is a flammable, solvent-based polyurethane and should be treated according to all known safety precautions. Refer to Section VII for Storage and Handling recommendations, Section VIII for Personal Protection, Section XIV for transport.

SECTION III - HAZARDOUS INGREDIENTS:

HAZARDOUS INGREDIENTS	%	CAS/PIN	TLV	PEL
n-butyl acetate	15.0	123-86-4	150.00	150.00
xylene	2.0	1330-20-7	100.00	100.00
Ethyl 3-Ethoxypropionate	16.0	763-69-9	N/A	N/A
T-butyl acetate	1.0	540-88-5	N/A	N/A

SECTION IV - FIRST AID MEASURES:**INHALATION:** Remove to fresh air. Give oxygen if required. Seek medical help.**EYES:** Flush w/clear lukewarm water for 15-20 minutes, occasionally lifting eyelids. See physician.**SKIN:** Remove contaminated clothing. Wash affected areas & clothing w/mild soap & water.**INGESTION:** Do not induce vomiting. Keep at rest. Get prompt medical attention.**SECTION V - FIREFIGHTING MEASURES:****CONDITIONS OF FLAMMABILITY:** Spraying or other activities to create finely divided droplets around open flame/sparks**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide, aldehydes, fumes**AUTOIGNITION TEMP.:** >499C. degrees **FLASH POINT & METHOD:** 40F. TCC**FLAMMABLE LIMITS: (Lower)** 1.4% **(Upper)** NAV**SENSITIVITY TO STATIC DISCHARGE?** NAV**SENSITIVITY TO MECHANICAL IMPACT?** NAV**SPECIAL PROCEDURES:** Firefighters should wear full-body protection & SCBA**MEANS OF EXTINCTION:** Foam, water spray (fog), dry chemical, carbon dioxide & vaporizing liquid type extinguishing agents**SECTION VI - ACCIDENTAL RELEASE MEASURES:**

Ventilate the area, control spill by covering w/sawdust or similar agent. Pour decontamination solution over spill (non-ionic surfactant Union Carbide's Tergitol TMN-10 (20%) + water (80%); avoid breathing vapors

SECTION VII - HANDLING AND STORAGE:

Storage Requirements: Maintain temperature between 32-122F. degrees; average shelf life is 3 years @ 77F. degrees. Empty containers may contain residual liquid or vapors, and should not be pressurized, cut, welded or exposed to ignition sources.

Handling Procedures/Equipment: Ground all containers; use non-sparking tools. Keep away from ignition sources as liquid contains volatiles that give off invisible vapors.

SECTION VIII - EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Personal Protective Equipment: Half-face respirator w/organic vapor filter, safety glasses w/shields, PVA or nitrile chemical-resistant gloves, skin protection

Engineering Controls: Mechanical exhaust fans; use explosion proof equipment

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE AND ODOR: White-colored liquid, ester solvent odor

SOLUBILITY IN WATER: Insoluble

FREEZING POINT: NAP **BOILING POINT:** >241F. deg. **pH:** NAP

SPECIFIC GRAVITY: 1.29 **ODOR THRESHOLD:** NAV

COEFF. WATER/OIL: NAV **EVAPORATION RATE:** 1%

VAPOUR DENSITY (Air = 1): 1.0+ **VAPOUR PRESSURE:** NAV

VOLATILES: 54.1%

SECTION X - STABILITY AND REACTIVITY DATA:

CONDITIONS OF REACTIVITY: By high heat or fire

CHEMICAL INCOMPATIBILITY: Oxidizing materials, amines, alcohols

CONDITIONS OF INSTABILITY: Stable, under normal conditions

HAZARDOUS DECOMPOSITION PRODUCTS: By high heat/fire--Carbon dioxide, carbon monoxide, fumes, smoke, aldehydes

CORROSIVE BEHAVIOR? NO

SECTION XI - HEALTH HAZARD DATA:

Health effects to over exposure to CONCENTRATE: Corrosive to mucous membranes, eyes and skin. The seriousness of the lesions and the prognosis of intoxication depend directly upon the concentration and duration of exposure.

Skin: May cause TEMPORARY skin discoloration and irritation

Eyes: May cause severe eye damage

If swallowed: HARMFUL OR FATAL - Causes chemical burns of mouth and stomach; Corrosive to gastrointestinal tract; Paleness and cyanosis of the face; Excessive fluid in the mouth and nose; Bloating of stomach and belching; Nausea and vomiting; Risk of chemical pneumonitis and pulmonary edema

If inhaled: Vapors or mist can cause irritation. People with asthma or lung problems may be more affected.

SECTION XII - ENVIRONMENTAL INFORMATION:

Air: 2.04 lbs./gallon V.O.C. (reactive 244g/l-white; 540g/l-clear)*

Water: Insoluble in water

Soil: Lead- and chromate-free/not hazardous under RCRA 40CFR

SECTION XIII - WASTE DISPOSAL:

Incineration preferred. Dispose of in accordance with federal, state and local government regulations.

SECTION XIV - TRANSPORT INFORMATION:

Classified a hazardous material(Class 3//UN1263//P.G. II//F.P.=5C), and should be marked and handled according to specific regulations. Tariff code: 3208.90.0000

SECTION XV - REGULATORY INFORMATION:

Materials listed under Superfund Amendments & Reauthorization Act of 1988 (SARA) Title III 302, 304, 311, 312, 313: Methyl Isobutyl Ketone (CAS 108-10-1), Toluol (CAS 108883)

SECTION XVI - OTHER INFORMATION:

*Product is compliant with many national and local VOC content regulations. However, because manufacturer is not familiar with all local VOC requirements, the user is responsible for understanding the local VOC rules and for verifying that the product selections meet the most current VOC requirements of the area in which the products are to be used.

PREPARATION INFORMATION:

PREPARED BY: J. Pritchett, Superior Products Int'l II, Inc. DATE: 10/20/16

SAFETY DATA SHEET (E/S/10/02)

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SECTION I - IDENTIFICATION OF PRODUCT AND COMPANY:

PRODUCT IDENTIFIER: ENAMO GRIP curing agent
GHS PRODUCT IDENTIFIED: Global Harmonized System #3208.90.000
CHEMICAL TYPE: Aliphatic Polyisocyanate
MANUFACTURER: SUPERIOR PRODUCTS INT'L II, INC.
ADDRESS: 10835 W. 78th St., Shawnee, KS 66214
PRODUCT USE: Applied to provide a tough, protective topcoat
EMERGENCY TELEPHONE NUMBER: **800/424-9300; 202/483-7616**



SECTION II - HAZARD IDENTIFICATION:

The product is a flammable, solvent-based polyurethane and should be treated according to all known safety precautions. Refer to Section VII for Storage and Handling recommendations, Section VIII for Personal Protection, Section XIV for transport.

SECTION III - HAZARDOUS INGREDIENTS:

<u>HAZARDOUS INGREDIENTS</u>	<u>%</u>	<u>CAS/PIN</u>	<u>TLV</u>	<u>PEL</u>
n-Butyl Acetate	19.94	123-86-4	75.00	75.00
Ethyl Acetate 99%	19.94	141-78-6	400.00	400.00
Homopolymer of HDI	60.0	28182-81-2		1mg/m3
Hexamethylene 1 (HDI)	0.12	822-06-0		

SECTION IV - FIRST AID MEASURES:

INHALATION: Remove to fresh air. Give oxygen if required. Seek medical help.

EYES: Flush w/clear lukewarm water for 15-20 minutes, occasionally lifting eyelids. See physician.

SKIN: Remove contaminated clothing. Wash affected areas & clothing w/mild soap & water.

INGESTION: Do not induce vomiting. Keep at rest. Get prompt medical attention.

SECTION V - FIREFIGHTING MEASURES:

CONDITIONS OF FLAMMABILITY: Spraying or other activities to create finely divided droplets around open flame/sparks

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, aldehydes, fumes

AUTOIGNITION TEMP.: >499C. degrees **FLASH POINT & METHOD:** 24F. TCC

FLAMMABLE LIMITS: (Lower) 1.4% **(Upper)** NAV

SENSITIVITY TO STATIC DISCHARGE? NAV

SENSITIVITY TO MECHANICAL IMPACT? NAV

SPECIAL PROCEDURES: Firefighters should wear full-body protection & SCBA

MEANS OF EXTINCTION: Dry Chemical--monoammonium phosphate, potassium chloride, carbon dioxide, high expansion (protenic) chemical foam, water spray for large fires

SECTION VI - ACCIDENTAL RELEASE MEASURES:

Ventilate the area, control spill by covering w/sawdust or similar agent. Pour decontamination solution over spill (non-ionic surfactant Union Carbide's Tergitol TMN-10 (20%) + water (80%); avoid breathing vapors.

SECTION VII - HANDLING AND STORAGE:

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Handling Procedures/Equipment: Ground all containers; use non-sparking tools. Keep away from ignition sources as liquid contains volatiles that give off invisible vapors.

SECTION VIII - EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Personal Protective Equipment: Half-face respirator w/organic vapor filter, safety glasses w/shields, PVA or nitrile chemical-resistant gloves, skin protection
Engineering Controls: Mechanical exhaust fans; use explosion proof equipment

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE AND ODOR: Clear/pale yellow medium-low viscosity liquid with ketone-solvent odor

SOLUBILITY IN WATER: Insoluble, reacts slowly with water to liberate CO2 gas

FREEZING POINT: NAP **BOILING POINT:** >241F. deg. **VOLATILES:** 54%

SPECIFIC GRAVITY: 1.03 **VAPOUR DENSITY (Air = 1):** 1.0

COEFF. WATER/OIL: NAV **EVAPORATION RATE:** 1.22%

VAPOUR PRESSURE: Polyisocyanate @ 7.5x10⁻⁵ mmHG@20C **pH:** NAP

SECTION X - STABILITY AND REACTIVITY DATA:

CONDITIONS OF REACTIVITY: By high heat or fire

CHEMICAL INCOMPATIBILITY: Oxidizing materials, amines, alcohols

CONDITIONS OF INSTABILITY: Stable, under normal conditions; unstable if contacted with water **CORROSIVE BEHAVIOR?** NO

HAZARDOUS DECOMPOSITION PRODUCTS: By high heat/fire--Carbon dioxide, carbon monoxide, fumes, smoke, aldehydes

SECTION XI - TOXICOLOGICAL PROPERTIES:

ROUTES OF ENTRY:SKIN CONTACT X EYE CONTACT X INHALATION X

SYNERGISTIC PRODUCTS NAV **EXPOSURE LIMITS:** NAV

EFFECTS OF ACUTE EXPOSURE: Burning sensation on mucous membranes & respiratory tract. Flu-like symptoms (fever and chills); skin irritation

EFFECTS OF CHRONIC EXPOSURE: Chemical asthma - chest tightness, wheezing, coughing, shortness of breath. Can cause lung damage.

MUTAGENICITY: NAV **CARCINOGENICITY:** NAV

IRRITANCY: Burning sensation **TERATOGENICITY:** NAV

REPRODUCTIVE TOXICITY: NAV

SENSITIZATION: Can cause future reaction to lesser amounts

SECTION XII - ENVIRONMENTAL INFORMATION:

Air: 2.04 lbs./gallon V.O.C. (reactive 244g/l-white; 540g/l-clear)*

Water: Insoluble in water

Soil: Lead- and chromate-free/not hazardous under RCRA 40CFR

SECTION XIII - WASTE DISPOSAL:

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