

**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	32.46	123-86-4	150.00	150.00
Methyl Isobutyl Ketone	18.28	108-10-1	50.00	50.00
Toluol	15.27	108883	100.00	100.00
Ethyl 3-Ethoxypropionate	33.99	763-69-9	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, aminos, 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 mucuse 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 discloration 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.

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:**

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**PREPARATION INFORMATION:**

PREPARED BY: J. Pritchett, Superior Products Int'l II, Inc. DATE: 1/16/15

NAP = Not Applicable

NAV = Not Available

# 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:**

**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:** 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<sup>-5</sup> mmHG@20C      **pH:** NAP

**SECTION X - STABILITY AND REACTIVITY DATA:**

**CONDITIONS OF REACTIVITY:** By high heat or fire

**CHEMICAL INCOMPATIBILITY:** Oxidizing materials, aminos, 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.

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:**

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**SECTION XVI - OTHER INFORMATION:**

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**PREPARATION INFORMATION:**

PREPARED BY: J. Pritchett, Superior Products Int'l II, Inc.      DATE: 3/20/15

NAP = Not Applicable

NAV = Not Available