



500 West Eldorado Street  
P.O. Box 671  
Decatur, Illinois 62525  
217-423-4471

ORGANIZATION - Production Materials  
Material Safety Data Sheets - Misc.

Mueller Co. does not maintain and distribute Material Safety Data Sheets (MSDS) on finished products such as a valve or fire hydrant, as these are felt to be outside the scope of such documents.

We do maintain and distribute MSDS for materials with which someone might come in contact during installation, use, or maintenance of the product. These materials would be ones such as lubricants, grease, paint and others.

If there are any questions, please let us know.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Dennis W. Humes". The signature is written in a cursive, flowing style.

DENNIS W. HUMES, P.E.  
Senior Project Engineer

DWH:acw

NILES

## MATERIAL SAFETY DATA SHEET

CHEMICAL

Product: N-4523A SIENNA EPOXY COATING COMP A

PAINT

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EMERGENCY TELEPHONE NUMBER  
(219)-236-5856 (24 Hours)  
(616)-683-3377 (Information)  
Contact: Mike Lichatowich

## SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: N-4523A SIENNA EPOXY COATING COMP A

PRODUCT CLASS: NA, Fed. # NA

DATE: 03-14-1990

National Stock Number : Not Applicable

Contract # Not Applicable

Health	2
Flammability	3
Reactivity	0
P.P.E.	6

## SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	% WT	OCCUPATIONAL EXPOSURE LIMITS (ppm)		OSHA PEL	VAPOR PRESSURE mm @ 20° C
			ACGIH TLV	ACGIH STEL		
EPOXY RESIN	25036-25-3	28	5mg/m3	NE	NE	NE
ETHYLENE GLYCOL	108-88-3	27	100	150	100	22
ACETATE	108-65-6	1	NE	NE	NE	3.7
ISO SOLVENT	64742-95-6	1	100	NE	NE	4.4
Proprietary Ingredients		Balance				

Manufacturer states unidentified ingredients are not considered hazardous under the Federal Hazard Communication Regulations.

## SECTION 3 - PHYSICAL DATA

BOILING RANGE: 177 - 350 °F ( 81 - 176 °C)

EVAPORATION RATE: Slower than ether

VAPOR DENSITY: Heavier than air

AUTOIGNITION TEMPERATURE: NE

DECOMPOSITION TEMPERATURE: NE

APPEARANCE AND ODOR: Liquid, Odor of solvents

WEIGHT PER GALLON: 11.18

% VOLATILE BY VOLUME: 47.22

V.O.C.: 3.43 Lbs/Gal.

VISCOSITY: 70 KU

SOLUBILITY IN WATER: Slight

NILES

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## SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 40 °F ( 4.4 °C)

FLAMMABILITY CLASS: Flammable

FIRE EXTINGUISHING MEDIA: Dry Chemical, Foam, CO<sub>2</sub>

METHOD USED: Tag Closed Cup

UEL: 12

LEL: 0.8

## SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus with a full facepiece operated in positive pressure mode and full protective clothing. Water may be used to cool closed containers to prevent pressure build up and possible auto ignition or explosion when exposed to extreme heat.

## UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep containers tightly closed. Vapors are heavier than air and may travel along the ground to an ignition source. Isolate from heat, sparks, electrical equipment, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

## SECTION 5 - REACTIVITY DATA

STABILITY: ☒ Stable  
☐ Unstable

This Material has been found to be stable under reasonable conditions of storage and use.

INCOMPATIBILITY (Materials to Avoid):  
STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS:  
Can produce Carbon Monoxide and/or Carbon Dioxide.

HAZARDOUS POLYMERIZATION: ☐ Might Occur  
☒ Will Not Occur

CONDITIONS TO AVOID:  
High Temperatures, Shock From Dropping.

NILES

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## SECTION 4 - HEALTH HAZARD DATA

ROUTES OF ENTRY: ( ) Dermal (X) Inhalation (X) Ingestion

## ACUTE EFFECTS OF OVEREXPOSURE:

yes: Severe Irritation, Lacrimation, Redness, Blurred Vision

skin: Redness and irritation, defatting of the skin leading to dermatitis.

breathing: Nasal and Respiratory Irritation, CNS Depression (Dizziness, Drowsiness, Weakness, Fatigue, Confusion) Nausea, Headache, Vertigo, Possible Unconsciousness, Even Asphyxiation.

swallowing: Gastrointestinal Irritation, Abdominal Pain, Nausea, Vomiting, Diarrhea

## CHRONIC EFFECTS OF OVEREXPOSURE:

EUPHORIA, NERVOUSNESS, INSOMNIA, PARESTHESIA, PHOTOPHOBIA

## TARGET ORGANS:

LUNGS, LIVER, KIDNEYS, SKIN, EYES, RESPIRATORY SYSTEM

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY OVEREXPOSURE: None Known

## EMERGENCY AND FIRST AID PROCEDURES:

Inhalation: Move victim to fresh air at once. If breathing has stopped, perform artificial respiration. Get medical attention as soon as possible.

Skin contact: Immediately flush skin with plenty of water. If material penetrates the clothing, immediately remove the contaminated clothing and flush the skin with water. Get medical attention. Wash clothing and decontaminate shoes before reuse.

Eye contact: Immediately flush eyes with large amount of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical attention immediately. Contact lenses should not be worn when working with this material.

Swallowing: Drink 1 or 2 glasses of water. DO NOT INDUCE VOMITING. Consult a physician or poison control center immediately. Treat Symptomatically.

## CARCINOGENICITY:

Not listed by NTP, IARC, or OSHA

NILES

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## SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

## STEPS TO BE TAKEN FOR SMALL SPILLS:

Eliminate all ignition sources. Minimize the breathing of vapors and avoid skin contact. Absorb with an inert material such as clay, soil, or a commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal.

## STEPS TO BE TAKEN FOR LARGE SPILLS:

Eliminate all ignition sources. Minimize the breathing of vapors and avoid skin contact. Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal.

## ASTE DISPOSAL METHOD:

Dispose of in accordance with applicable local, state, and federal regulations.

## RECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid storage in high temperature areas or near fire or open flame. Keep containers closed when not in use. Avoid rough handling.

## OTHER PRECAUTIONS:

Containers of this material may be hazardous when empty. Do not weld or flame out on empty drums.

## SECTION 8 - SPECIAL PROTECTION INFORMATION

## RESPIRATORY PROTECTION:

Wear an appropriate (Type TC-23C-75) properly fitted half-mask or full facepiece respirator (NIOSH/MSHA) during and after application unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for use.

## VENTILATION:

Adequate ventilation in volume and pattern should be provided to keep the air concentration below current applicable OSHA permissible exposure limit or CGIH's TLV limit. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product. For baking finishes--vent vapors emitted on heating.

## PROTECTIVE EQUIPMENT:

Wear chemical resistant (Nitrile or Viton) gloves and clothing as needed to prevent skin contact. If potential for eye contact exists wear chemical goggles, safety glasses, or face shields. Employees should wash promptly when skin becomes contaminated. Remove any clothing that becomes wet (to avoid flammability hazard) and wash before reuse.

HYGIENE: Wash hands before eating, smoking, or using restroom.

ILES

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## SECTION 9 - TRANSPORTATION

DOT SHIPPING NAME (49CFR172.101-102): PAINT FLAMMABLE LIQUID

UN-1263

DOT HAZARD CLASSIFICATION (49CFR172.101-102):  
FLAMMABLE LIQUID

REPORTABLE QUANTITY: No

DOT LABELS REQUIRED (49CFR172.101-102): FLAMMABLE

UNIT CONTAINER: M.A.

DOT EXEMPTION NUMBER: NA

EPA HAZARDOUS WASTE CODE: D-001

AEROSOL PROPELLANTS: NA

## SECTION 10 - REGULATORY INFORMATION

## SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):

This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

## SECTIONS 311 and 312 - M.S.D.S. REQUIREMENTS (40 CFR 370):

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

- ☒ IMMEDIATE (ACUTE) HEALTH HAZARD
- ☒ DELAYED (CHRONIC) HEALTH HAZARD
- ☒ FIRE HAZARD
- ☐ SUDDEN RELEASE OF PRESSURE HAZARD
- ☐ REACTIVITY HAZARD

## SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):

From the list of toxic chemicals, this product contains:  
Toluene