

Material Safety Data Sheet

Revised 1/01

Manufacturer's Name
Coatings For Industry, Inc.
319 Township Line Road
Souderton, PA 18964

Emergency Response #
1-800-535-5053

Non-Emergency #
215-723-0919

Formula
Proprietary

Trade Name
Sunlube 320

Section II - Hazardous Ingredients

<u>Material</u>	<u>CAS No.</u>	<u>%</u>
N-Methyl-Pyrrolidone*	872-50-4	2.5
1,2-Propanediol	57-55-6	2

*ACGIH/TLV, OSHA/PEL - Not Established. (100 ppm recommended by mfg.)

Section III - Physical Data

Specific Gravity ~~~~~98-1.02

% Volatile by Weight ~~~~~75

Vapor Density ~~~~~Heavier than air

Solubility in water ~~~~~Soluble - Water Base

Appearance and Odor ~~~~~milky, clear

Section IV - Fire and Explosion Hazard Data

Flash Point ~~~~~ Greater than 200° F. (Not regulated)

Extinguishing Media - Protein type air foams, water spray, ABC dry chemical

Unusual Fire and Explosion Hazards - Material will not sustain combustion but closed containers may explode due to build up of steam pressure when exposed to heat.

Section V - Health Hazard Data

Threshold Limit Values - See Section II

Acute Health Effects

May cause eye and skin irritation.

Ingestion may cause nausea, vomiting and diarrhea.

Inhalation may cause irritation of the respiratory tract and mucous membranes.

Chronic Health Effects

N-METHYL PYRROLIDONE (NMP) has been shown to produce reproductive and developmental effects at very high, maternally toxic doses, in experimental animals.

These observations are not thought to be relevant to occupational usage of NMP.

Signs/Symptoms of Exposure

Irritation.

Routes of Exposure/Entry

Eyes, skin contact, inhalation, ingestion.

Target Organs

Eyes, respiratory tract, reproductive system, skin.

Medical Conditions Aggravated by Exposure

Pre-existing skin problems may be aggravated by prolonged or repeated contact.

Persons with sensitive airways (e.g., asthmatics) may react to vapors.

Carcinogenic Status

The components of this mixture are not known to be listed or regulated by IARC, NTP, OSHA or ACGIH.

Section VI – First Aid Measures

If irritation or other symptoms (as noted above) occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

Eye Contact

Immediately flush eyes with plenty of clean water for an extended time, not less than five (5) minutes. Flush longer if there is any indication of residual chemical in the eye.

Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion.

Skin Contact

Wash the affected area thoroughly with plenty of water and soap.

inhalation

If affected, remove to fresh air.

If not breathing, give artificial respiration.

Ingestion

Get medical attention immediately.

Section VII - Reactivity Data

Stability: This product is stable.

Hazardous Polymerization: Hazardous polymerization will not occur.

Conditions to Avoid

Do not freeze.

Incompatibility with other materials

Acidic conditions will cause the urethane resin to precipitate out of solution.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, and oxides of nitrogen.

Section VIII - Spill or Leak Procedures

Containment Techniques

Contain spill.

If spilled in an enclosed area, ventilate.

Clean-Up Techniques

Wear proper personal protective clothing and equipment. Do not flush liquid into public sewer, water systems or surface waters. Soak up large spill residue and small spills with an inert absorbent. Place into labeled, closed container; store in safe location to await disposal. Wash the spill area with soap and water.

Change contaminated clothing and launder before reuse.

Section IX – Exposure Controls / Personal Protection

Engineering Controls

Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation.

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS. Ventilation guidelines/techniques may be found in publications such as Industrial Ventilation: American Conference of Governmental Industrial Hygienists, 1330 Kemper Meadow Drive, Cincinnati, OH, 45240-1634, USA.

Eye/Face Protection

Wear eye protection.

Skin Protection

Wear chemical resistant (impervious) gloves.

Respiratory Protection

Wear a respirator approved by NIOSH/MSHA (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the exposure limit(s) of any chemical substance listed in this MSDS.

Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

Section X – Toxicological Information

<u>Route</u>	<u>Species</u>	<u>Exposure and Dose</u>
n-Methyl pyrrolidone		
Oral	Rat, adult	LD50 4200. mg/kg
Skin	Rabbit, adult	LD50 8000. mg/kg
1,2 Propanediol		
Oral	Rat, adult	LD50 20 gm/kg
Skin	Rabbit, adult	LD 50 20800mg/kg

N-METHYL PYRROLIDONE: Human experience has demonstrated redness, cracking and blistering through repeated or prolonged contact. NMP was reported to be fetotoxic and to increase skeletal abnormalities when administered dermally to rats during gestation at very high, maternally toxic doses. NMP was not fetotoxic or teratogenic in rats exposed to NMP vapors up to 0.36 mg/L during gestation (Fund. and Appl. Tox. 9:222-235, 1987). NMP has been reported to cause aneuploidy in saccharomyces, but is not mutagenic in the Ames test (Env. and Molec. Mut 11(1)31-40, 1988).

Section XI – Handling and Storage**Handling**

Avoid eye contact.

Avoid repeated or prolonged skin contact.

Avoid inhalation of aerosol, mist, spray, fume or vapor.

Avoid drinking, tasting, swallowing or ingesting this product.

Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities.

Provide eyewash fountains and safety showers in the work area.

Use under well-ventilated conditions.

Under normal conditions of use, curing (heating) of this polymer may generate a small amount of dimethyl ethanol amine. Substrates coated or impregnated with this polymer can emit dimethyl ethanol amine until the polymer is fully reacted.

Storage

Do not store in open, unlabeled or mislabeled containers.

Do not allow product to freeze.

Do not puncture or stack drums.

Keep container closed when not in use.

Do not reuse empty container without commercial cleaning or reconditioning.

CAS NO: Chemical Abstract Service Registry Number
IARC: International Agency for Research on Cancer
MSHA: Mine Safety and Health Administration
NIOSH: National Institute for Occupational Safety and Health
NTP: National Toxicology Program
N/A: Not Applicable
N/E: None Established
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
PNOC: Particulates Not Otherwise Classified
RTK: Right To Know
STEL: Short Term Exposure Limit (15 minute Time Weighted Average)
TLV: Threshold Limit Value

NOTICE : This information is presented in good faith and believed to be accurate as of the effective date below. However, no warranty is express or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Coatings For Industry, Inc. assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material, such vendees or users assume all risks associated with the use of the material. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The preceding specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

9/00