



an EnPro Industries company

## Safety Data Sheet Evokote – Evolution Coating

### SECTION 1: Identification of the Substance/mixture and of the Company/Undertaking

**Trade Name:** Evokote – trade secret material  
**Article Number:** No other identifiers  
**Relevant identified uses of the substance or mixture and uses advised against:** No further relevant information available.  
**Application of the substance / mixture:** Coating compound/ Surface coating/ paint

### SECTION 2: Hazards Identification

Emergency Overview  
GHS Classification  
Flammable liquids (Category 4)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)  
Reproductive toxicity (Category 1B)  
Specific target organ toxicity- single exposure (Category 3), Respiratory system  
GHS Label elements, including precautionary statements

Pictograms:



Signal word: Danger

Hazard statement(s):

H227 Combustible liquid

H303 May be harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H360 May damage fertility or the unborn child.

Precautionary statement(s):

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.



P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403 + P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**HMIS Classification**

Health hazard: 2

Chronic Health Hazard: \*

Flammability: 2

Physical hazards: 0

**NFPA Rating**

Health hazard: 2

Fire: 2

Reactivity Hazard: 0

**Potential Health Effects**

**Inhalation May be harmful if inhaled. Causes respiratory tract irritation.**

**Skin May be harmful if absorbed through skin. Causes skin irritation.**

**Eyes Causes eye irritation.**

**Ingestion May be harmful if swallowed.**

**SECTION 3: Composition/information on ingredients**

COMPONENT	CAS – No.	Range % by WT
N-Methyl-2-pyrrolidone	872-50-4	80 - 95%
Proprietary Polymer (Poly(amic acid))	NA	5 - 15%
Proprietary Pigment	NA	0 - 1%

**SECTION 4: First Aid Measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Indicates a long term health hazard from repeated or prolonged exposures.

**SECTION 5: Firefighting Measures****Conditions of flammability**

Flammable in the presence of a source of ignition when the temperature is above the flash point.

Keep away from heat/sparks/open flame/hot surface. No smoking.

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Carbon Monoxide, Oxides of Boron.

**Further information**

Use water spray to cool unopened containers.

**Additional information:**

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

**SECTION 6: Accidental release measures****Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**SECTION 7: Handling and Storage****Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

**Conditions for safe storage**

Store under inert gas. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store under inert gas. Moisture sensitive.

**SECTION 8: Exposure controls/personal protection****Components with workplace control parameters**

Components	CAS-No.	Value	Control Parameters	Basis
N-methyl-2-pyrrolidone	872-50-4	TWA	10.000000 ppm	USA. Workplace Environmental Exposure Levels (WEEL)
	Remarks	Skin		
		PEL	1 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin	4mg/m3	
		TWA	10 ppm	USA. Workplace Environmental Exposure Levels (WEEL)
		Skin		

**Derived No Effect Level (DNEL)**

Application Area	Exposure routes	Health effect	Value
Workers	Skin Contact	Acute systemic effects	208 mg/Kg BW/d
Workers	Inhalation	Acute systemic effects	80 mg/m <sup>3</sup>
Workers	Skin Contact	Long-term systemic effects	19.8 mg/Kg BW/d
Workers	Inhalation	Long-term systemic effects	40 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)**

Compartment	Value
Water	5 mg/l
Soil	0.138 mg/Kg
Marine Water	0.025 mg/Kg
Fresh Water	0.25 mg/l
Fresh Water Sediment	0.805 mg/Kg
Onsite sewage treatment plant	10 mg/l

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Impervious clothing, Flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**SECTION 9: Physical and chemical properties****Appearance**

Form - Opaque, viscous liquid

Color - Brown to Grey

**Safety data**

pH

Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure	no data available
Density	1 g/cm <sup>3</sup> at 20 °C (68 °F)
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapor density	no data available
Odor	no data available
Odor Threshold Evaporation rate	no data available

## **SECTION 10: Stability and Reactivity**

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

No data available

### **Conditions to avoid**

Heat, flames and sparks.

### **Materials to avoid**

Strong acids, strong oxidizing agents, Strong reducing agents

Hazardous decomposition product

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

Other decomposition products - no data available

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## **SECTION 11: Toxicological Information**

### **Acute toxicity**

No data available

### **Skin corrosion/irritation**

No data available

### **Serious eye damage/eye irritation**

No data available

### **Respiratory or skin sensitization**

No data available.

### **Germ cell mutagenicity**

no data available

### **Carcinogenicity**

### **Reproductive toxicity**

Damage to fetus possible

### **Teratogenicity**

No data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

Inhalation – May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.

**Ingestion** May be harmful if swallowed.

**Skin** - May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** - Causes eye irritation.

**Signs and Symptoms of Exposure**

Prolonged or repeated exposure can cause:, Vomiting, Diarrhea, Abdominal pain, Rats exposed to 1-methyl-2- pyrrolidone at a concentration of 1 mg/L as an aerosol for 10 days showed depletion of hematopoietic cells in the bone marrow and atrophy of the lymphoid tissues of the thymus, spleen, and lymph nodes.

Bone marrow - Irregularities - Based on Human Evidence

**Synergistic effects**

no data available

**SECTION 12: Ecological Information****Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

**SECTION 13: Disposal considerations****Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.  
of this material.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14: Transportation information**

**DOT (US)**

UN number: 1866 Class: 3 Packing group: III

Proper shipping name: Resin Solution

IMDG

UN number: 1866 Class: 3 Packing group: III

Proper shipping name: Resin Solution

IATA

UN number: 1866 Class: 3 Packing group: III

Proper shipping name: Resin Solution

**SECTION 15: Regulatory information****SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Components	CAS No.	Revision Date
N-methyl-2-pyrrolidone	872-50-4	2007-07-01

**SARA 311/312 Hazards**

Fire Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

Components	CAS No.	Revision Date
N-methyl-2-pyrrolidone	872-50-4	2007-07-01

**Pennsylvania Right To Know Components**

Components	CAS No.	Revision Date
N-methyl-2-pyrrolidone	872-50-4	2007-07-01

**New Jersey Right To Know Components**

Components	CAS No.	Revision Date
N-methyl-2-pyrrolidone	872-50-4	2007-07-01

**California Prop. 65 Components**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Components	CAS No.	Revision Date
N-methyl-2-pyrrolidone	872-50-4	2015-06-01

**Section 16: Other Information**

The information contained herein is believed to be correct, but there is no guarantee such information is accurate or complete, and this Safety Data Sheet does not make any warranty, express or implied, regarding the product. GPT does not assume liability for any loss or damage, direct or indirect, arising out of the use of this information. The user is solely responsible for (1) the safe handling and use of this product, (2) legal compliance, and (3) all losses, damages, or liability from use of this product.