## Section 1 - Chemical Product and Company Information

IN CASE OF EMERGENCY:

CHEMTREC 1-800-424-9300

Product Name: 1201E Product Code: 1201E

Trade Name: Glyptal

Manufactured by:

GLYPTAL, INC. 305 Eastern Ave. Chelsea, MA 02150 Telephone (617) 884-6918

Product Use: Coatings Not recommended for: Nonindustrial Use

# Section 2 - Hazards Identification

NFPA Raings, risk phrases, and suggested WHMIS Hazard Categories:

#### **GHS Ratings:**

	Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >=	
		24	2.3 < 4.0 or persistent inflammation	
	Eye corrosive	2A 1B	Eye irritant: Subcategory 2A, Reversible in 21 days	
	Reproductive toxin	3	Presumed, Based on experimental animals	
	Organ toxin single	3	Transient target organ effects- Narcotic effects- Respiratory tract irritation	
	exposure			
<u>GHS Ha</u>	azards			
	H315	Causes skin irritatior	1	
	H319	Causes serious eye irritation May cause respiratory irritation		
	H335			
	H360	May damage fertility	or the unborn child	
<u>GHS Pr</u>	recautions			
	P202	Do not handle until a	Il safety precautions have been read and understood	
	P233	Keep container tightly closed		
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray		
	P264	Wash skin thoroughly after handling		
	P271	Use only outdoors or	r in a well-ventilated area	
	P280	Wear protective glov	es/protective clothing/eye protection/face protection	
	P312	Call a POISON CEN	TER or doctor/physician if you feel unwell	
	P362	Take off contaminated clothing and wash before reuse		
	P302+P352	IF ON SKIN: Wash w	vith soap and water	
	P304+P340	IF INHALED: Remov	ve victim to fresh air and keep at rest in a position comfortable	
		for breathing		
	P305+P351+P338	IF IN EYES: Rinse c	ontinuously with water for several minutes. Remove contact	
		lenses if present and	I easy to do – continue rinsing	
	P308+P313	IF exposed or conce	rned: Get medical advice/attention	
	P332+P313	If skin irritation occur	rs: Get medical advice/attention	
	P337+P313	If eye irritation persis	sts, get medical advice/attention	
	P403+P233		ated place. Keep container tightly closed	
	P403+P235		ated place. Keep cool	
	P501	Dispose of contents/	container to an approved waste disposal plant	

SDS for: 1201E



Section 3 - Composition/Information on Ingredients		
Chemical Name	CAS number	Weight Concentration %
1-Methyl-2-pyrrolidinone	872-50-4	10.00% - 20.00%

## Section 4 - First Aid Measures

**INHALATION** - Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room, or physician as further medical treatment may be necessary. Administer oxygen if a qualified operator is available.

**EYE CONTACT** - In case of eye contact, flush the eyes with water for fifteen (15) minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. If irritation persists, contact a poison control center, emergency room, or physician as further medical treatment may be necessary.

**SKIN CONTACT** - In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water. If symptoms persist, contact a poison control center, emergency room, or physician as further medical treatment may be necessary.

**INGESTION** - If material is ingested, seek immediate medical attention. Do not induce vomiting. If vomiting occurs spontaneously, keep the head below the hips to prevent aspiration of liquid into the lungs. Contact a poison control center, emergency room, or physician as further medical treatment will be necessary.

# Section 5 - Fire Fighting Measures

Flash Point:	93 C (199 F)
LEL: 1.00	

UEL: 10.00

EXTINGUISHING MEDIA: Use carbon dioxide (CO2), "alcohol" foam, dry chemical

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** The product vapor is heavier than air and may travel a considerable distance to a source of ignition and flashback. Closed containers may explode or burst when exposed to extreme heat. May produce hazardous decomposition products when exposed to extreme heat.

**HAZARDOUS COMBUSTION PRODUCTS:** See section 10 for a list of hazardous decomposition products for this mixture.

**FIRE FIGHTING:** Water spray may be ineefective. If water is used, fog nozzles are prefereable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and

equipment with a water wash-down after fire and smoke exposure.

**FIRE FIGHTING EQUIPMENT:** Firemen and emergency responders: wear full turnout gear or Level A equipment, including positive-pressure, self-contained breathing apparatus (SCBA).

## Section 6 - Accidental Release Measures

**SPILL AND LEAK PROCEDURES:** Spill supervisor - Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Remove all ignition sources. Keep nonessential personnel away from the contaminated area.

**SMALL SPILLS:** Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes.

Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

**LARGE SPILLS:** Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if the product has entered or may enter, sewers, watercourses, or extensive land areas .

Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes.

Label the waste container. Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

## Section 7 - Handling and Storage

HANDLING PRECAUTIONS: Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containers closed when not in use. Do not handle or store material near heat, sparks, open flames, or other sources of ignition. Store at room temperatures, i.e., 50 to 85 F (10 to 30 C).

STORAGE: Prevent from freezing. Do not store above 95 F (35 C).

Store only in original containers.

Section 8 - Exposure Controls / Personal Protection			
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits

ENGINEERING: Provide general dilution of local exhaust ventilation in volume and pattern to keep concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Ensure processing (curing) ovens are properly vented to prevent the introduction of processing fumes into the workplace. Use explosion-proof equipment and good manufacturing practice.

**VENTILATION:** Use only with adequate ventilation, i.e., ventilation in compliance with occupational exposure limits. Refer to OSHA standards 1910.94, 1910.107, 1910.108.

### PERSONAL PROTECTIVE EQUIPMENT

### EYES:

Wear splash goggles. If extra protection is required, wear a face shield over the splash goggles. Face shields are effective only if worn in addition to splash goggles.

#### **PROTECTIVE GLOVES:**

Wear chemical-resistant gloves (butyl rubber or neoprene). Protective gloves should be inspected frequently and discarded when they exhibit cuts, tears, pinholes, or signs of excessive wear. If necessary, wear a chemical-resistant, butyl-rubber apron and other protective clothing, as deemed appropriate, to avoid skin contact with material.

### **RESPIRATORY PROTECTION:**

Respiratory protection may not be needed if the local exhaust is sufficient to maintain levels of hazardous ingredients below occupational exposure limits. Where ventilation is inadequate, use a NIOSH/MSHA-approved, air-purifying respirator equipped with the appropriate chemical cartridges or positive-pressure, air-supplied respirator. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used.

**CONTAMINATED EQUIPMENT:** Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

## Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

Appearance Red Liquid Physical State Liquid

Vapor Pressure 0.50 mm Hg

Boiling Range 100 to 202 °C

Lbs VOC/Gallon Solids 4.2

Vapor Density Heavier than air Evaporation Rate Slower than ether Specific Gravity (SG) 1.276 Lbs VOC/Gallon Less Water 2.83 and Exempt Solvent

Odor Minimal

# Section 10 - Stability and Reactivity

### Stability:

STABLE

#### Components of this mixture are incompatible with the following materials:

Strong oxidizing agents Acids

#### This mixture is likely to exhibit the following combustion products:

Carbon Dioxide, Carbon Monoxide Oxides of nitrogen Hazardous polymerization will not occur.

Section 11 - Toxicological Information

#### **Component Toxicity**

872-50-4

1-Methyl-2-pyrrolidinone Oral LD50: 3,914 mg/kg (Rat)

Toxicological information: The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 3 and 15 for details.

Routes of Entry:

Inhalation Skin Contact Eye Contact Ingestion Exposure to this material may affect the following organs: Respiratory System

### Effects of Overexposure

**Carcinogenicity:** The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing). See Section 15 for carcinogenicity assessment.

CAS Number	<b>Description</b>	<u>% Weight</u>	Carcinogen Rating
None			N/A
Section 12 - Ecological Information			

### **Component Ecotoxicity**

1-Methyl-2-pyrrolidinone	12.1 Toxicity Toxicity to fish	LC50 - other fish - 4,000 mg/l - 96 h LC50 - Leuciscus idus (Golden orfe) - > 500 mg/l - 96 h
	Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 24 h
	Toxicity to bacteria	LC50 - Bacteria - > 9,000 mg/l
	12.2 Persistence an Biodegradability Re	d degradability sult: 90 % - Readily biodegradable
	12.3 Bioaccumulativ No data available	ve potential
	12.4 Mobility in soil No data available	
	12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted	
	12.6 Other adverse No data available	effects

Section 13 - Disposal Considerations

The provisions of Council Directive 91/689/EEC and subsequent Amendments and Decisions apply to wastes for the product as supplied.

Do not allow into drains or water courses.

Waste and emptied containers must be disposed of in accordance with:

-Control of Pollution Act of 1974,

-Special Waste Regulations 1996,

-Duty of Care Regulations 1992.

Waste should be recycled or disposed of through a licensed waste management facility .

# Section 14 - Transport Information

This material is classified for transport as follows:

Agency	Proper Shipping Name
DOT	Not DOT Regulated

DOT

# Section 15 - Regulatory Information

According to the Directive (1999/45/EC), relating ot the classification packaging and labelling of dangerous substances and preparations, the product is labelled as follows:

### State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

872-50-4 1-Methyl-2-pyrrolidinone 10 to 20 %

**Packing Group** 

**UN Number** 

**Hazard Class** 

#### Carcinogenicity:

**IARC** - No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH** - No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potention carcinogen by ACGIH.

**OSHA** - No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potention carcinogen by OSHA.

**NTP** - No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

1-Methyl-2-pyrrolidinone 872-50-4

**Commonwealth of Massachusetts "Right to Know":** This product contains the following toxic or hazardous substances which appear on the Massachusetts Substance List:

1-Methyl-2-pyrrolidinone 10 to 20 %

**New Jersey Worker and Community Right To Know Hazardous Substance List:** The following substances appear on the New Jersey Right To Know Hazardous Substance List.

1-Methyl-2-pyrrolidinone 10 to 20 %

**Commonwealth of Pennsylvania Worker and Community Right-To-Know Act:** This product contains the following chemicals which appear on the Pennsylvania Hazardous Substance List: 872-50-4

WHMIS Classification B2 Flammable Liquid - None

Country

Regulation

**All Components Listed** 



**Toxic Substances Control Act (TSCA):** All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations, part 372.

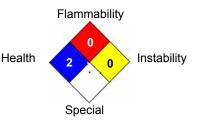
# Section 16 - Other Information

#### Hazardous Material Information System (HMIS)



HMIS & NFPA Hazard Rating Legend \* = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH

#### National Fire Protection Association (NFPA)



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**Reviewer Revision** 

Date Prepared: 6/3/2015