## **SAFETY DATA SHEET**

# Section 1 - Chemical Product and Company Information

Product Name: 1201E Product Code: 1201E

Trade Name: Glyptal

Manufactured by: IN CASE OF EMERGENCY:

GLYPTAL, INC. CHEMTREC 1-800-424-9300

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: >=
		2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Reproductive toxin	1B	Presumed, Based on experimental animals
Organ toxin single	3	Transient target organ effects- Narcotic effects- Respiratory
exposure		tract irritation

#### **GHS Hazards**

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child

# **GHS Precautions**

P501

Precautions	
P202	Do not handle until all 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 in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P362	Take off contaminated clothing and wash before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously 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
P403+P233	Store in a well ventilated place. Keep container tightly closed
P403+P235	Store in a well ventilated place. Keep cool

SDS for: 1201E

Dispose of contents/container to an approved waste disposal plant

Page 1 of 8

#### Signal Word: Danger



# 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

SDS for: 1201E Page 2 of 8

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				

SDS for: 1201E Page 3 of 8

1-Methyl-2-pyrrolidinone	PEL N/A	TLV N/A	TWA - 10pm USA
872-50-4			Workplace
			Environmental
			Exposure Levels (WEEL)

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

Odor Minimal

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

# Section 10 - Stability and Reactivity

SDS for: 1201E Page 4 of 8

#### 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-N

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

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	Description	<u>% Weight</u>	Carcinogen Rating
None			N/A

# Section 12 - Ecological Information

#### **Component Ecotoxicity**

SDS for: 1201E Page 5 of 8

Printed: 9/20/2018 at 12:46:51PM

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 and degradability

Biodegradability Result: 90 % - Readily biodegradable

12.3 Bioaccumulative potential

No data available

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 effects

No data available

# 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

UN Number Packing Group Hazard Class

## Section 15 - Regulatory Information

According to the Directive (1999/45/EC), relating of 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 %

SDS for: 1201E Page 6 of 8

#### Carcinogenicity:

IARC: Group 2B: Possibly carcinogenic to humans

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

- None

#### 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 / D2A Very Toxic Material

- None

WHMIS Classification B2 Flammable Liquid / D2B Toxic Material

- None

<u>Country</u> <u>Regulation</u> <u>All Components Listed</u>



# **EU Risk Phrases**

#### **Safety Phrase**

**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.

SDS for: 1201E Page 7 of 8

# Section 16 - Other Information

#### **Hazardous Material Information System (HMIS)**

# HEALTH 2 HMIS & NFPA Hazard Rating Legend \* = Chronic Health Hazard

0

В

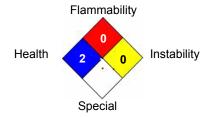
1 = SLIGHT

2 = MODERATE

0 = INSIGNIFICANT

3 = HIGH

#### National Fire Protection Association (NFPA)



**NON-WARRANTY.** The information presented in this publication is based upon the research and experience of Glyptal, Inc. No representation or warranty is made concerning the accuracy or completeness of the information presented in this publication. Glyptal, Inc. makes no warranty or representation of any kind, express or implied, including without limitation any warranty of merchantability or fitness for any particular purpose, and no warranty or representation shall be implied by law or otherwise. Any products sold by Glyptal, Inc. are not warranted as suitable for any particular purpose to the buyer. The suitability of any products for any purpose particular to the buyer is for the buyer to determine. Glyptal, Inc. shall in no event be liable for any special, incidental, or consequential damages.

The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by Glyptal, Inc., and to recommend precautionary measures for the storage and handling of the products. No liability can be assumed for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

Reviewer Revision

Date Prepared: 9/20/2018

PHYSICAL HAZARD

PERSONAL PROTECTION

SDS for: 1201E Page 8 of 8