

**SDS:** 0001610 **Date Prepared:** 04/14/2021

# SAFETY DATA SHEET

# 1. IDENTIFICATION

Product Name:CYMEL® 1172 ResinSynonyms:NoneProduct Description:Modified glycoluril resin in waterMolecular Formula:MixtureMolecular Weight:MixtureIntended/Recommended Use:Raw material for surface coatings

Allnex USA Inc., 9005 Westside Parkway, Alpharetta, Georgia 30009, USA **For Product and all Non-Emergency Information call** your local Allnex contact point or contact us at http://www.allnex.com/contact

EMERGENCY PHONE (24 hours/day) - For emergency only involving spill, leak, fire, exposure or accident call:

+1-866-928-0789 (toll free) or +1-215-207-0061 (Carechem 24 - Allnex29003-NCEC) See Section 16 for Emergency phone numbers for other regions.

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# 2. HAZARDS IDENTIFICATION

## **GHS Classification**

Carcinogenicity Hazard Category 1B Serious Eye Damage / Eye Irritation Hazard Category 2B Skin Sensitizer Hazard Category 1A

## LABEL ELEMENTS



Signal Word DANGER

#### Hazard Statements

May cause cancer Causes eye irritation May cause an allergic skin reaction

## **Precautionary Statements**

Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/face protection. Wash face, hands and any exposed skin thoroughly after handling.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Contaminated work clothing should not be allowed out of the workplace.

IF exposed or concerned: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

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

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see supplemental first aid instructions on this label).

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container in accordance with local and national regulations.

## Hazards Not Otherwise Classified (HNOC), Other Hazards

Polymerization may occur from excessive heat, contamination or exposure to direct sunlight.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

## HAZARDOUS INGREDIENTS

Component / CAS No.	%	GHS Classification
Glycoluril RPW formaldehyde	~ 45	Skin Irrit. 3 (H316)
36833-16-6		Eye Irrit. 2B (H320)
		Skin Sens. 1B (H317)
Formaldehyde	< 1.0	Carc. 1B (H350)
50-00-0		Muta. 2 (H341)
		Acute Tox. 3 (H301)
		Acute Tox. 3 (H311)
		Acute Tox. 3 (H331)
		Skin Corr. 1B (H314)
		Eye Dam. 1 (H318)
		Skin Sens. 1A (H317)
		Aquatic Acute 2 (H401)

The specific chemical identity and/or exact percentage of composition for one or more ingredients has been withheld as a trade secret.

Additional GHS classification or other information may be included in this section but has not been adopted by OSHA. See Section 16 for full text of H phrases.

# 4. FIRST AID MEASURES

## **First-aid Measures**

## Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.

## Skin Contact:

Wash immediately with plenty of water and soap. Remove contaminated clothing and shoes without delay. Obtain medical attention. Do not reuse contaminated clothing without laundering. Destroy or thoroughly clean shoes before reuse.

## Eye Contact:

Rinse immediately with plenty of water for at least 15 minutes. Obtain medical advice if there are persistent symptoms.

#### Ingestion:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects, Acute and Delayed None known.

#### **Immediate Medical Attention and Special Treatment**

Not applicable.

#### Notes To Physician:

No specific measures have been identified.

## **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media:

Use water spray, carbon dioxide or dry chemical.

#### Unsuitable Extinguishing Media:

full water jet.

#### **Protective Equipment:**

Firefighters, and others exposed, wear self-contained breathing apparatus.

#### **Special Hazards:**

Keep containers cool by spraying with water if exposed to fire.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions:

Where exposure level is known, wear approved respirator suitable for level of exposure. Where exposure level is not known, wear approved, positive pressure, self-contained respirator. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

#### Methods For Cleaning Up:

Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water.

#### **Environmental Precautions:**

None known.

#### References to other sections:

See Sections 7, 8 and 13 for additional information.

## 7. HANDLING AND STORAGE

#### HANDLING

**Precautions:** Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

**Special Handling Statements:** Provide good ventilation of working area (local exhaust ventilation if necessary). During processing and handling of the product, comply with the indicative occupational exposure limit values. Avoid excessive heat, contamination or exposure to direct sunlight to prevent polymerization.

## STORAGE

Store in a cool, dry, well ventilated place and keep container tightly closed. Take precautionary measures against electrostatic loading - earthing necessary during loading operations. Observe the general rules of industrial fire protection. Sensitive to frost.

**Storage Temperature:** Store at 4.4 - 32.2 °C 40 - 90 °F **Reason:** Quality.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering Measures:**

Utilize a closed system process where feasible. Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure when spraying or curing at elevated temperatures.

#### **Respiratory Protection:**

For operations where inhalation exposure can occur use an approved respirator. Recommendations are listed below. Other protective respiratory equipment may be used based on user's own risk assessment. Recommended respirators include those certified by NIOSH.

#### Recommended:

Full Face Mask with organic vapor cartridge, Type A filter (BP >65°C)

#### Eye Protection:

Prevent eye and skin contact. Provide eye wash fountain and safety shower in close proximity to points of potential exposure. Wear eye/face protection such as chemical splash proof goggles or face shield.

#### **Skin Protection:**

Prevent contamination of skin or clothing when removing protective equipment. Barrier creams may be used in conjunction with the gloves to provide additional skin protection. Wear impermeable gloves and suitable protective clothing.

#### Hand Protection:

Wear protective gloves. Recommendations are listed below. Other protective materials may be used based on user's own risk assessment. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Replace gloves immediately when torn or any change in appearance (dimension, color, flexibility etc.) is noticed.

<u>Gloves for repeated or prolonged exposure - non exhaustive list:</u> Nitrile rubber (NBR), thickness: > 0.38 mm, break through time: up to 480 min

<u>Gloves for short term exposure/splash protection - non exhaustive list:</u> Nitrile rubber (NBR), thickness: > 0.38 mm, break through time: up to 480 min

The chemical resistance depends on the type of product and amount of product on the glove. Therefore gloves need to be changed when in contact with chemicals.

Not suitable gloves - non exhaustive list: Polyvinyl alcohol (PVA), thickness: 0.2-0.3 mm

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. Use PE gloves as under gloves for difficult situations like for instance: high exposure, unknown composition or unknown properties of the chemicals.

## Additional Advice:

Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water. It is recommended that a shower be taken after completion of workshift especially if significant contact has occurred. Work clothing should then be laundered prior to reuse. Street clothing should be stored separately from work clothing and protective equipment. Work clothing and shoes should not be taken home.

# Exposure Limit(s)

50-00-0	Formaldehyde	
OSHA (PI	EL):	0.75 ppm (TWA)
		2 ppm (STEL)
		2 ppm STEL 15 min
		0.5 ppm Action Level
		0.75 ppm TWA
ACGIH (T	ĽV):	0.3 ppm (STEL)
		0.1 ppm (TWA)
Other Val	ue:	Not established

# **Biological Exposure Limit(s)**

No values have been established.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Appearance: Odor: Boiling Point: Melting Point: Vapor Pressure: Specific Gravity/Density: Vapor Density: Percent Volatile (% by wt.): pH: Saturation In Air (% By Vol.): Evaporation Rate: Solubility In Water: Volatile Organic Content: Flash Point:	yellow to amber liquid Formaldehyde Not applicable Not applicable 1.2 g/cm <sup>3</sup> Not applicable ~ 55 5.2 - 5.7 (as is) Not applicable Not available Complete Not available > 93 °C 199 °F Closed Cup
Flash Point:	> 93 °C 199 °F Closed Cup
Flammable Limits (% By Vol): Autoignition Temperature:	Not applicable Not applicable
Decomposition Temperature:	Not applicable
Partition coefficient (n-octanol/water):	Not applicable
Odor Threshold: Viscosity (Kinematic): Viscosity (Dynamic): Flammability: Oxidizing Properties:	Not available Not available Not available Not available No

# **10. STABILITY AND REACTIVITY**

Reactivity:	No information available		
Stability:	Stable.		
Conditions To Avoid:	None known.		

CYMEL® 1172 Resin	SDS: 0001610	Date Prepared: 04/14/2021	Page 6 of 11
Polymerization:	May occur		
Conditions To Avoid:	Avoid contact with acids an	d oxidizing agents.	
Materials To Avoid:	Strong acids and strong ox	idizing agents.	
Hazardous Decomposition Products:	Ammonia (NH3) Carbon dioxide Carbon monoxide (CO) Formaldehyde methanol oxides of nitrogen		

# **11. TOXICOLOGICAL INFORMATION**

Likely Routes of Exposure: Oral, Skin, Eyes.

Acute toxicity - oral: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met. Acute toxicity - dermal: Not Classified - Based on available data and/or professional judgment, the

classification criteria are not met.

Acute toxicity - inhalation: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Skin corrosion / irritation: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met. Serious eye damage / eye irritation: Causes eye irritation

Respiratory sensitization: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met. Skin sensitization: May cause an allergic skin reaction

Carcinogenicity: May cause cancer Route of Exposure: inhalation Germ cell mutagenicity: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met. Reproductive toxicity: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure: Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met. Specific target organ toxicity (STOT) - repeated exposure: Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

Aspiration hazard: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

# **PRODUCT TOXICITY INFORMATION**

# ACUTE TOXICITY DATA

oral	rat	Acute LD50	> 2000 mg/kg
dermal	rabbit	Acute LD50	> 2000 mg/kg
inhalation	rat	Acute LC50 4 hr	> 5 mg/l
			estimated (Dust/Mist)

# LOCAL EFFECTS ON SKIN AND EYEAcute IrritationdermalmildAcute IrritationeyemildALLERGIC SENSITIZATIONdermalSensitizationSensitizationdermalSensitizingSensitizationNo data

Assays for Gene Mutations Ames Salmonella Assay No data

#### OTHER INFORMATION

The product toxicity information above has been estimated.

## HAZARDOUS INGREDIENT TOXICITY DATA

Direct contact with Glycoluril RPW formaldehyde may cause mild eye and skin irritation. Prolonged or repeated contact may cause allergic skin reaction.

Formaldehyde has oral (rat) and dermal (rabbit) LD50 values of 640 mg/kg and 270 mg/kg, respectively. 50% of the mice had reduced respiration rate following a 10 minutes inhalation exposure at a concentration of 4.9 ppm. Irritation of the nose and throat has been observed in people exposed to formaldehyde vapor levels in excess of 1 ppm. Normal breathing may be seriously impaired and serious lung damage can occur. Formaldehyde has been reported to cause pulmonary hypersensitivity in some individuals who were exposed to concentrations known to cause irritation; however, no pulmonary sensitization has been demonstrated in laboratory animal studies. Formaldehyde solutions can cause severe eye and skin irritation. Repeated skin exposure to solutions of 2% or more formaldehyde has caused allergic skin reactions. Formaldehyde was found to be weakly genotoxic in a number of in vitro genotoxicity tests and positive in certain in vivo genotoxicity studies. Formaldehyde did not cause birth defects in rats inhaling concentrations up to 10 ppm. However, a study using higher levels did show a slight but statistically significant reduction in male fetal body weight. Lifetime inhalation of formaldehyde vapor at concentrations above 5 ppm for 6 hours per day, caused nasal tumors in laboratory animals. The International Agency for Research on Cancer (IARC) has classified formaldehyde as a Group 1 (known) human carcinogen based on epidemiological evidence linking formaldehyde exposure to the occurrence of nasopharyngeal cancer, a rare type of cancer. IARC also found limited evidence of cancer of the nasal cavity and paranasal sinuses and insufficient evidence for an association between formaldehyde and leukemia. Inhalation caused liver and kidney damage in laboratory animal tests.

#### Carcinogenicity

This product contains one or more Carcinogen Chemical(s) in accordance with IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), ACGIH (American Conference of Governmental Industrial Hygienists).

Component / CAS No.	Carcinogen
Formaldehyde	IARC 1
50-00-0	NTP
	ACGIH A2

WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

# **12. ECOLOGICAL INFORMATION**

TOXICITY, PERSISTENCE AND DEGRADABILITY, BIOACCUMULATIVE POTENTIAL, MOBILITY IN SOIL,

#### **OTHER ADVERSE EFFECTS**

This material is not classified as dangerous for the environment. The ecological assessment for this material is based on an evaluation of its components. The ecological properties of this material have not been fully investigated.

#### RESULTS OF PBT AND vPvB ASSESSMENT Not determined

#### HAZARDOUS INGREDIENT TOXICITY DATA

Component / CAS No.	Toxicity to Fish
Glycoluril RPW formaldehyde	Not available
(36833-16-6)	
Formaldehyde (50-00-0)	LC50 = 6.7 mg/L - Morone saxatilis (96h)

Component / CAS No.	Toxicity to Water Flea
Glycoluril RPW formaldehyde (36833-16-6)	Not available
Formaldehyde (50-00-0)	EC50 = 5.8 mg/L - Daphnia pulex (48h)

Component / CAS No.	Toxicity to Algae
Glycoluril RPW formaldehyde (36833-16-6)	Not available
Formaldehyde (50-00-0)	EC50 = 4.89 mg/L - Desmodesmus subspicatus (72hrs)

Component / CAS No.	Partition coefficient
Glycoluril RPW formaldehyde	Not available
(36833-16-6)	
Formaldehyde (50-00-0)	0.35

# **13. DISPOSAL CONSIDERATIONS**

The information on RCRA waste classification and disposal methodology provided below applies only to the product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA "listed hazardous waste" or has any of the four RCRA "hazardous waste characteristics." Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA "listed hazardous waste"; information contained in Section 15 of this SDS is not intended to indicate if the product is a "listed hazardous waste." RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 9 of this SDS (flash point). For Corrosivity, see Section 3 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. The Company encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. The Company recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at EPA approved

facilities. The Company has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

# **14. TRANSPORT INFORMATION**

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

## **US DOT**

Dangerous Goods? X PROPER SHIPPING NAME: OTHER REGULATED SUBSTANCE, LIQUID, N.O.S. Hazard Class: 9 Packing Group: III UN/ID Number: NA3082 Transport Label Required: Miscellaneous TECHNICAL NAME (N.O.S.): FORMALDEHYDE

Component / CAS No.

Formaldehyde

Hazardous Substances/Reportable Quantity of <u>Product (lbs)</u> 10101

Comments:

Hazardous Substances/Reportable Quantities - DOT requirements specific to Hazardous Substances only apply if the quantity in one package equals or exceeds the product reportable quantity.

## **TRANSPORT CANADA**

Dangerous Goods? Not applicable/Not regulated

## ICAO / IATA

Dangerous Goods? Not applicable/Not regulated

IMO

Dangerous Goods? Not applicable/Not regulated

SPECIAL PRECAUTIONS FOR USER PROTECT FROM FREEZING

# **15. REGULATORY INFORMATION**

#### **Inventory Information**

**United States (USA):** All components of this product are designated as "Active" on the TSCA Inventory or are not required to be listed.

**Canada:** All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

**European Economic Area (including EU):** When purchased and shipped from an Allnex legal entity based in the EEA (EU or Norway), this product is compliant with the registration of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt and/or registered.

**Australia:** All components of this product are included in the Australian Inventory of Industrial Chemicals (AIIC) or are not required to be listed on AIIC.

**New Zealand:** This product is approved or exempt under the Hazardous Substances and New Organisms (HSNO) Act.

**China:** One or more components of this product are NOT included on the Chinese (IECSC) inventory. The company has obtained the required notification approvals from the Ministry of Environmental Protection (MEP) as per the "Environmental Administrative Measures for New Chemical Substance" for the component(s) not listed in the Chinese Inventory (IECSC). The product can be imported/manufactured in China ONLY under specific conditions.

**Japan:** All components of this product are included on the Japanese (ENCS and ISHL) inventories or are not required to be listed on the Japanese inventories.

Korea: One or more components of this product are NOT included on the Korean (ECL) inventory.

Philippines: One or more components of this product are NOT included on the Philippine (PICCS) inventory.

**Taiwan:** All components of this product are included in the Taiwan chemical substance inventory or are not required to be listed on the Taiwan chemical substance inventory (TCSI).

#### OTHER ENVIRONMENTAL INFORMATION

The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste disposal of this product.

Component / CAS No.	%	TPQ (lbs)	RQ(lbs)	S313	TSCA 12B
Formaldehyde	< 1.0	500	100	Yes	No
50-00-0					

## PRODUCT HAZARD CATEGORY UNDER SECTIONS 311 AND 312 OF EPCRA

# Physical Hazards

Not applicable

## **Health Hazards**

Carcinogenicity Respiratory or Skin Sensitization Serious eve damage or eve irritation

## **16. OTHER INFORMATION**

#### NFPA Hazard Rating (National Fire Protection Association)

Health: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

Fire: 1 - Materials that must be preheated before ignition can occur.

Instability: 1 - Materials that in themselves are normally stable, but that can become unstable at elevated temperatures and pressures.

Reasons for Issue: Revised Section 9

Date Prepared:04/14/2021Date of last significant revision:03/18/2021

## **Component - Hazard Statements**

Glycoluril RPW formaldehyde

- H316 Causes mild skin irritation.
- H317 May cause an allergic skin reaction.
- H320 Causes eye irritation.

Formaldehyde

- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H401 Toxic to aquatic life.

#### Emergency phone numbers for other regions

#### Asia Pacific

Australia: +61 1800 022 037 (Allnex Australia) China (PRC): +86(0)532 8388 9090 (NRCC) India: 000 800 100 7479 (toll free) or +65 3158 1198 (Carechem 24) Indonesia: 007 803 011 0293 (Carechem 24) Japan: +81 345 789 341 (Carechem 24) Korea: +82 2 3479 8401 (Carechem 24) Malaysia: +60 3 6207 4347 (Carechem 24) New Zealand: +64 0800 803 002 (Allnex New Zealand) Philippines: +63 2 231 2149 (Carechem 24) Taiwan: +886 2 8793 3212 (Carechem 24) Vietnam: +84 8 4458 2388 (Carechem 24) All Others: +65 3158 1074 (Carechem 24) Europe +44 (0) 1235 239 670 (Carechem 24) Middle East, Africa +44 (0) 1235 239 671 (Carechem 24) Latin America Brazil: +55-800-707-7022 (toll free) or +55-11-98149-0850 (Suatrans 24) Chile: +56 2 2582 9336 (Carechem 24) Mexico and all others: +52-555-004-8763 (Carechem 24)

Prepared By: Product Stewardship & Regulatory Affairs Department, http://www.allnex.com/contact

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