

**SDS**: 0018534

**Date Prepared:** 08/25/2018

# **SAFETY DATA SHEET**

# 1. IDENTIFICATION

Product Name: EBECRYL® P104 radiation curing resins

Synonyms: None

Product Description:Acrylated resinMolecular Formula:Not availableMolecular Weight:Not available

Intended/Recommended Use: Radiation curable coating ingredient

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**

Skin Corrosion / Irritation Hazard Category 2 Serious Eye Damage / Eye Irritation Hazard Category 2B Aquatic Environment Acute Hazard Category 3 Aquatic Environment Chronic Hazard Category 3

# LABEL ELEMENTS



# Signal Word WARNING

# **Hazard Statements**

Causes skin irritation
Causes eye irritation
Harmful to aquatic life
Harmful to aquatic life with long lasting effects

# **Precautionary Statements**

Wash face, hands and any exposed skin thoroughly after handling.

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

Avoid release to the environment.

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

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

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

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.

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.

Contact with skin may cause a cross-allergic reaction in persons already sensitized to acrylates.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **HAZARDOUS INGREDIENTS**

Component / CAS No.	%	GHS Classification	Carcinogen
Phosphites	< 0.5	Acute Tox. 4 (H302)	-
-		Skin Irrit. 2 (H315)	
		Eye Irrit. 2A (H319)	
		Skin Sens. 1B (H317)	
		Aquatic Acute 1 (H400)	
		Aquatic Chronic 1 (H410)	
Oligomer acrylate	98 - 100	Skin Irrit. 2 (H315)	-
-		Eye Irrit. 2B (H320)	
		, , ,	

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:

Material is not expected to be harmful if inhaled. Remove to fresh air.

#### **Skin Contact:**

Remove contaminated clothing and shoes without delay. Wash immediately with plenty of water. Do not reuse contaminated clothing without laundering. Get medical attention if pain or irritation persists after washing or if signs and symptoms of overexposure appear.

# **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 or fog, carbon dioxide or dry chemical.

# **Unsuitable Extinguishing Media:**

full water jet.

# **Protective Equipment:**

Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See SDS Section 8 (Exposure Controls/Personal Protection).

# **Special Hazards:**

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

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions:

Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. 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:**

Use appropriate containment to avoid environmental contamination. Avoid release to the environment.

## References to other sections:

See Sections 7, 8 and 13 for additional information.

# 7. HANDLING AND STORAGE

#### **HANDLING**

**Precautions:** Wash hands thoroughly after handling. Wear protective gloves. Avoid release to the environment.

**Special Handling Statements:** Avoid excessive heat, contamination or exposure to direct sunlight to prevent polymerization.

#### **STORAGE**

Keep product away from heat, ignition sources, direct sunlight, oxidizing agents, acid chlorides, and acid anhydrides.

Storage Temperature: Room temperature

Reason: Quality.

# **Engineering Measures:**

Engineering controls are not usually necessary if good hygiene practices are followed.

# **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:**

Wear eye/face protection such as chemical splash proof goggles or face shield. Eyewash equipment and safety shower should be provided in areas of potential exposure.

### **Skin Protection:**

Avoid skin contact. 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.

# Gloves for repeated or prolonged exposure - non exhaustive list:

Nitrile rubber (NBR), thickness: > 0.56 mm, break through time: up to 480 min

## Gloves for short term exposure/splash protection - non exhaustive list:

Nitrile rubber (NBR), thickness: 0.1 mm, break through time: up to 30 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:

Latex gloves

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.

## **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.

# **Exposure Limit(s)**

No values have been established.

# **Biological Exposure Limit(s)**

No values have been established.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Color:** pale yellow to red **Appearance:** clear viscous liquid

Specific Gravity/Density:

mild organic Odor: > 100 °C **Boiling Point:** Not available **Melting Point:** 

0.013 hPa @ 25 °C **Vapor Pressure:** 

Not available Vapor Density: Percent Volatile (% by wt.): Not available :Ha Not available Saturation In Air (% By Vol.): Not available **Evaporation Rate:** Not available Solubility In Water: slightly soluble **Volatile Organic Content:** Not available

Flash Point: > 100 °C 212 °F Cleveland Open Cup

1.01 g/cm<sup>3</sup>

Not applicable Flammable Limits (% By Vol): **Autoignition Temperature:** Not available **Decomposition Temperature:** Not available Partition coefficient Not available

(n-octanol/water):

**Odor Threshold:** Not available Viscosity (Kinematic): Not available

Viscosity (Dynamic): 7 - 13 mPa.s @ 25 °C Low viscous liquid

**Explosive Properties:** Not available

**Oxidizing Properties:** No

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# 10. STABILITY AND REACTIVITY

No information available Reactivity:

Stable. Stability:

**Conditions To Avoid:** Avoid direct exposure to sunlight. Loss of dissolved air. Loss of polymerization

inhibitor.

Polymerization: May occur

**Materials To Avoid:** Polymerization initiators including peroxides, strong oxidizing agents, copper,

copper alloys, carbon steel, iron, rust, and strong bases. Hazardous

polymerization may occur. Uncontrolled polymerization may cause rapid evolution of heat and increase in pressure that could result in violent rupture of sealed

storage vessels or containers.

**Hazardous Decomposition** 

**Products:** 

oxides of carbon hydrocarbons

Nitrous oxides (NOx)

# 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: Causes skin irritation

Serious eye damage / eye irritation: Causes eye irritation

classification criteria are not met.

Respiratory sensitization: Not Classified - Based on available data and/or professional judgment, the

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

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

**Germ cell mutagenicity:** Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

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**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 (Dust/Mist)

### LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	dermal	rabbit	Irritating
Acute Irritation	eye	rabbit	mild

### **ALLERGIC SENSITIZATION**

Sensitization	Skin	No data
Sensitization	respiratory	No data

# **GENOTOXICITY**

## **Assays for Gene Mutations**

Ames Salmonella Assay No data

# OTHER INFORMATION

The toxicological properties of this material have not been fully determined.

Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms such as redness, blistering, dermatitis, etc.

Contact with skin may cause a cross-allergic reaction in persons already sensitized to acrylates.

# 11. TOXICOLOGICAL INFORMATION

# HAZARDOUS INGREDIENT TOXICITY DATA

Phosphites may cause serious eye and moderate skin irritation. The oral, dermal and inhalation LD50 values for the rat are 1590 mg/kg, > 2000 mg/kg and > 5mg/l (dust/mist) respectively. Sensitization has been observed after dermal exposure. No mutagenicity could be evidenced in in-vitro testing. There is no experimental evidence for adverse

effects in reproduction. There is no experimental evidence of carcinogenic effect.

The toxicological properties of oligomer acrylate have not been fully investigated. Contact causes moderate skin and mild eye irritation.



MARNING: Reproductive Harm – www.P65Warnings.ca.gov

# 12. ECOLOGICAL INFORMATION

# TOXICITY, PERSISTENCE AND DEGRADABILITY, BIOACCUMULATIVE POTENTIAL, MOBILITY IN SOIL, **OTHER ADVERSE EFFECTS**

Overall Environmental Toxicity: Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

The ecological assessment for this material is based on an evaluation of its components.

# RESULTS OF PBT AND vPvB ASSESSMENT

Not determined

#### HAZARDOUS INGREDIENT TOXICITY DATA

Component / CAS No.	Toxicity to Fish
Phosphites (-)	Not available
Oligomer acrylate (-)	Not available

Component / CAS No.	Toxicity to Water Flea
Phosphites (-)	Not available
Oligomer acrylate (-)	Not available

Component / CAS No.	Toxicity to Algae
Phosphites (-)	Not available
Oligomer acrylate (-)	Not available

Component / CAS No.	Partition coefficient
Phosphites (-)	Not available
Oligomer acrylate (-)	Not available

# 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 quidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seg) 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 Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, 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? Not applicable/Not regulated

#### TRANSPORT CANADA

Dangerous Goods? Not applicable/Not regulated

### ICAO / IATA

Dangerous Goods? Not applicable/Not regulated

#### **IMO**

Dangerous Goods? Not applicable/Not regulated

# 15. REGULATORY INFORMATION

#### **Inventory Information**

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

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 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 Chemical Substances (AICS) or are not required to be listed on AICS.

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

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**China:** All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

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

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.

This product does not contain any components regulated under these sections of the EPA

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

# **Physical Hazards**

Not applicable

#### **Health Hazards**

Skin Corrosion or Irritation Serious eye damage or eye irritation

# 16. OTHER INFORMATION

# NFPA Hazard Rating (National Fire Protection Association)

Health: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual 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 11

**Date Prepared:** 08/25/2018 **Date of last significant revision:** 05/06/2015

# **Component - Hazard Statements**

**Phosphites** 

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

Oligomer acrylate

H315 - Causes skin irritation.

H320 - Causes eye irritation.

# **Emergency phone numbers for other regions**

### **Asia Pacific**

Australia: +61 1800 022 037 (Allnex Australia)

China (PRC): +86(0)25 8547 7110 (Jiangsu registration center) / +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)

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