

**SDS**: 0060421

**Date Prepared:** 09/26/2018

# **SAFETY DATA SHEET**

# 1. IDENTIFICATION

Product Name: EBECRYL® 5850 radiation curing resins

Synonyms: None

Product Description:

Molecular Weight:
Intended/Recommended Use:

Acrylated oligomer
Not available
Coatings & Inks

**Uses advised against:** This product should not be used in any consumer applications. Reason:

sensitizing properties.

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**

Acute Toxicity (Oral) Hazard Category 4
Skin Corrosion / Irritation Hazard Category 2
Serious Eye Damage / Eye Irritation Hazard Category 2A
Skin Sensitizer Hazard Category 1

## **LABEL ELEMENTS**



# Signal Word WARNING

# **Hazard Statements**

Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction

# **Precautionary Statements**

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

Do not eat, drink or smoke when using this product.

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

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

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

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

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

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

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.

If skin irritation or rash occurs: 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.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **HAZARDOUS INGREDIENTS**

Component / CAS No.	%	GHS Classification	Carcinogen
Acrylated oligomer	> 97.5	Acute Tox. 4 (H302)	-
-		Skin Irrit. 2 (H315)	
		Eye Irrit. 2A (H319)	
		Skin Sens. 1 (H317)	

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.

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

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

# **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:**

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. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid breathing vapors or spray mist. Wear protective gloves and eye/face protection.

**Special Handling Statements:** Provide good ventilation of working area (local exhaust ventilation if necessary). Contact with this material may not be apparent until 24-48 hours after the exposure. Therefore, good personal hygiene, such as washing immediately with soap and water after handling is highly recommended. 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. Keep away from heat sources and direct sunlight.

Storage Temperature: Store at <= 25 - 40 °C 39.2 - 104 °F

Reason: Quality.

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# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Engineering Measures:**

Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure.

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

Laminated multilayer gloves, break through time: > 60 min

Nitrile rubber (NBR), thickness: > 0.56 mm, break through time: < 60 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. 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.

# **Exposure Limit(s)**

No values have been established.

## **Biological Exposure Limit(s)**

No values have been established.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Color: colorless to yellow

Appearance: liquid resin
Odor: ester-like

Boiling Point: > 100 °C 212 °F Melting Point: Not available

Vapor Pressure:1.33 hPa @ 20 °CSpecific Gravity/Density:1.0 - 1.2 g/cm³Vapor Density:Not availablePercent Volatile (% by wt.):< 0.1 - 0.3 -</th>

pH: Not applicable
Saturation In Air (% By Vol.): Not available
Evaporation Rate: Not applicable
Solubility In Water: negligible
Volatile Organic Content: Not available

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

Flammable Limits (% By Vol):
Autoignition Temperature:
Decomposition Temperature:
Partition coefficient

Not available
Not available
Not available

(n-octanol/water):

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

Viscosity (Dynamic): 5500 - 8500 mPa.s @ 25 °C Viscous liquid

**Explosive Properties:** Not available

Oxidizing Properties: No

# 10. STABILITY AND REACTIVITY

Reactivity: No information available

Stability: Stable.

Conditions To Avoid: Avoid direct exposure to sunlight. Avoid temperatures above 60°C (140°F). Avoid

friction with temperature increase as result. Avoid exposure to strong UV sources. Loss of dissolved air. Loss of polymerization inhibitor. Avoid direct contact with

heat sources.

Polymerization: May occur

**Conditions To Avoid:** Uncontrolled polymerization may cause rapid evolution of heat and increase in

pressure that could result in violent rupture of sealed storage vessels or containers. Avoid contact with bases or amines. Avoid contact with strong

oxidizing agents. Avoid contact with free radical initiators.

Materials To Avoid: Avoid free radical producing initiators. Avoid contact with peroxides. Avoid

contact with reactive metals. Avoid contact with strong alkalis. They give an exothermic reaction with the product. Unintentional contact with them should be

avoided.

Avoid contact with active metals.

**Hazardous Decomposition** 

**Products:** 

Hazardous polymerization can occur when exposed to direct sunlight.

Hazardous exothermic polymerization can occur when heated.

oxides of carbon

smoke

hydrocarbons

soot

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# 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin, Eyes, Oral.

Acute toxicity - oral: Harmful if swallowed

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 serious 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: 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.

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 (gavage) rat Acute LD50 550 mg/kg Actual

(tested)

dermal rabbit Acute LD50 No data inhalation rat Acute LC50 4 hr No data

**LOCAL EFFECTS ON SKIN AND EYE** 

Acute Irritation dermal Irritating
Acute Irritation eye Irritating

**ALLERGIC SENSITIZATION** 

Sensitization Skin Sensitizing
Sensitization respiratory No data

#### **GENOTOXICITY**

**Assays for Gene Mutations** 

Ames Salmonella Assay No data

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#### OTHER INFORMATION

The product toxicity information above has been estimated.

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

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

## 11. TOXICOLOGICAL INFORMATION

#### HAZARDOUS INGREDIENT TOXICITY DATA

The substance has an acute oral (rat) LD50 value of 550 mg/kg and an estimated acute dermal (rabbit) LD 50 value > 2000mg/kg. Eye and skin irritation are expected for acrylated substances. Allergic reactions were observed upon dermal exposure. No data are available for reproductive or developmental adverse effect. Genotoxicity and carcinogenicity were not investigated.



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

#### 12. ECOLOGICAL INFORMATION

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

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

This material is not classified as dangerous for the environment.

# **RESULTS OF PBT AND VPVB ASSESSMENT**

This product does not meet the criteria for PBT (Persistent, Bioaccumulative and Toxic substance) or for vPvB (Very Persistent and Very Bioaccumulative).

#### HAZARDOUS INGREDIENT TOXICITY DATA

Component / CAS No.	Toxicity to Fish
Acrylated oligomer (-)	Not available

Component / CAS No.	Toxicity to Water Flea
Acrylated oligomer (-)	Not available

Component / CAS No.	Toxicity to Algae
Acrylated oligomer (-)	Not available

Component / CAS No.	Partition coefficient
Acrylated oligomer (-)	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 guidance 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.

This material is subject to a Significant New Use Rule (SNUR) 40 CFR Section 721.10872.

**Canada:** One or more components of this product are NOT included on the Canadian Domestic Substances List (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

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components are either excluded, exempt and/or registered.

**Australia:** One or more components of this product have NOT yet been included in the Australian Inventory of Chemical Substances (AICS) or assessed by NICNAS.

**New Zealand:** This product is NOT approved 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:** One or more components of this product are NOT included on the Japanese (ENCS and/or ISHL) 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:** One or more components of this product are NOT included in the Taiwan chemical substance inventory (TCSI). 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).

**Switzerland:** All components of this product are exempt from the new substance notification requirements for Switzerland (SR 813.11 art. 24-26).

#### 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**

Acute toxicity (any route of exposure) Skin Corrosion or Irritation Respiratory or Skin Sensitization 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

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# Date of last significant revision: 05/23/2017

Acrylated oligomer

H302 - Harmful if swallowed. H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H317 - May cause an allergic skin reaction.

# **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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