

## SAFETY DATA SHEET

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### 1. IDENTIFICATION

<b>Product Name:</b>	<b>EBECRYL® 114 radiation curing resins</b>
<b>Synonyms:</b>	None
<b>Product Description:</b>	Phenoxyethyl acrylate
<b>Molecular Formula:</b>	Mixture
<b>Molecular Weight:</b>	Mixture
<b>Intended/Recommended Use:</b>	Radiation curable coating ingredient, Coatings & Inks
<b>Uses advised against:</b>	This product should not be used in any application where unreacted liquid product is intended to come in direct contact with skin or nails. 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**

Reproductive Toxicant Hazard Category 2  
Skin Sensitizer Hazard Category 1A  
Aquatic Environment Acute Hazard Category 2  
Aquatic Environment Chronic Hazard Category 2

#### **LABEL ELEMENTS**



#### **Signal Word**

WARNING

#### **Hazard Statements**

Suspected of damaging fertility or the unborn child  
May cause an allergic skin reaction  
Toxic to aquatic life

Toxic to aquatic life with long lasting effects

### Precautionary Statements

Obtain special instructions before use.

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.

Avoid release to the environment.

IF exposed or concerned: 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.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### HAZARDOUS INGREDIENTS

Component / CAS No.	%	GHS Classification	Carcinogen
2-phenoxyethyl acrylate 48145-04-6	99 - 100	Repr. 2 (H361) Skin Sens. 1A (H317) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)	-

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.

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## 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.

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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media:**

Use water spray or fog, carbon dioxide or dry chemical.

**Unsuitable Extinguishing Media:**

high pressure 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.

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**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.

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**7. HANDLING AND STORAGE****HANDLING**

**Precautions:** Avoid release to the environment. 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:** 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 4 - 40 °C

**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 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:

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. Barrier creams may be used in conjunction with the gloves to provide additional skin protection.

### 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.

### 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.

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### 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

<b>Color:</b>	clear pale yellow
<b>Appearance:</b>	clear liquid
<b>Odor:</b>	ester-like
<b>Boiling Point:</b>	132 °C @ 101.3 kPa
<b>Melting Point:</b>	-74 °C Glass transition point
<b>Vapor Pressure:</b>	0.25 Pa @ 25 °C
<b>Specific Gravity/Density:</b>	1.105 g/cm <sup>3</sup> @ 20 °C
<b>Vapor Density:</b>	Not available
<b>Percent Volatile (% by wt.):</b>	< 0.5 %
<b>pH:</b>	Not available
<b>Saturation In Air (% By Vol.):</b>	Not available
<b>Evaporation Rate:</b>	Not available
<b>Solubility In Water:</b>	525 mg/l @ 25 °C
<b>Volatile Organic Content:</b>	Not available
<b>Flash Point:</b>	> 140 °C Pensky-Martens Closed Cup
<b>Flammable Limits (% By Vol):</b>	Not applicable
<b>Autoignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Partition coefficient (n-octanol/water):</b>	2.58 @ 25 °C OECD 117
<b>Odor Threshold:</b>	Not available
<b>Viscosity (Kinematic):</b>	Not available
<b>Viscosity (Dynamic):</b>	Low viscous liquid
<b>Explosive Properties:</b>	Not an explosive
<b>Oxidizing Properties:</b>	Not Oxidizing

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## 10. STABILITY AND REACTIVITY

**Reactivity:** No information available

**Stability:** Stable.

**Conditions To Avoid:** Avoid direct exposure to sunlight. Avoid temperatures higher than 60°C. 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. Protect from direct sunlight.

**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. Hazardous polymerization can occur when exposed to direct sunlight. Hazardous exothermic polymerization can occur when heated. Material should not be heated above 100°C due to polymerization.

**Materials To Avoid:** Avoid contact with peroxides.  
Avoid free radical producing initiators.  
Avoid contact with reactive metals.  
Contact with alkalis.  
They give an exothermic reaction with the product.  
Unintentional contact with them should be avoided.  
Hazardous polymerization may occur.

**Hazardous Decomposition Products:** Carbon dioxide  
Carbon monoxide (CO)

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## 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Skin, Eyes, Oral.

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

**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:** Suspected of damaging fertility or the unborn child

**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	> 5000 mg/kg
dermal	rabbit	Acute LD50	> 2000 mg/kg
inhalation	rat	Acute LC50 4 hr	No data

**LOCAL EFFECTS ON SKIN AND EYE**

Acute Irritation	eye	rabbit	Not irritating
Acute Irritation	dermal	rabbit	Not irritating

**ALLERGIC SENSITIZATION**

Sensitization	Skin	guinea pig	Sensitizing
Sensitization	respiratory	No data	

**SUBACUTE/SUBCHRONIC TOXICITY**

oral (gavage)	rat	Combined 28-Day Repeated Dose Study With The Reproduction/Developmental Toxicity Screen 28 day	300 mg/kg NOAEL
oral (gavage)	rat	SubChronic 90 day	350 mg/kg NOAEL

**GENOTOXICITY****Assays for Gene Mutations**

Ames Salmonella Assay	Salmonella Typhimurium	Negative
Mouse Lymphoma Assay	mouse lymphoma cell	Negative

**Assays for Chromosomal Aberrations**

In Vitro Chromosomal Aberrations	Human Lymphocyte	Negative
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**REPRODUCTIVE TOXICITY**

oral (gavage)	rat	Combined 28-Day Repeated Dose oral (gavage) Study With The Reproduction/Developmental Toxicity Screen
rat	Teratogenicity Test	
		Positive

**OTHER INFORMATION**

The toxicity data above are the results from Allnex sponsored studies or from the available public literature. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms such as redness, blistering, dermatitis, etc.

The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

**11. TOXICOLOGICAL INFORMATION****HAZARDOUS INGREDIENT TOXICITY DATA**

2-phenoxyethyl acrylate has an acute oral (rat) and acute dermal (rabbit) LD50 value of > 5000 and > 2000 mg/kg respectively. 2-phenoxyethyl acrylate was found minimally to mildly irritating to skin and eyes. Animal testing indicates 2-phenoxyethyl acrylate might give allergic reactions. Based on the available in vitro tests, 2-phenoxyethyl acrylate is not expected to be genotoxic. Developmental effects and post-implantation losses were observed in a reprotox screening study and a teratogenicity study. 2-phenoxyethyl acrylate has not been fully investigated for carcinogenicity.



**WARNING:** Reproductive Harm – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**12. ECOLOGICAL INFORMATION****TOXICITY, PERSISTENCE AND DEGRADABILITY, BIOACCUMULATIVE POTENTIAL, MOBILITY IN SOIL, OTHER ADVERSE EFFECTS**

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

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

**ALGAE TEST RESULTS**

**Test:** Growth Inhibition (OECD 201)

**Duration:** 72 hr

**Species:** Green Algae (*Scenedesmus subspicatus*)

4.4 mg/l EC50

**FISH TEST RESULTS**

**Test:** Acute toxicity, freshwater (OECD 203)

**Duration:** 96 hr.

**Species:** Leuciscus idus

10 mg/l LC50

### INVERTEBRATE TEST RESULTS

**Test:** Acute Immobilization (OECD 202)

**Duration:** 48 hr

**Species:** Water Flea (Daphnia magna)

1.21 mg/l EC50

**Test:** Daphnia magna Reproduction Test (OECD 211)

**Duration:** 21 day

**Species:** Water Flea (Daphnia magna)

> 0.1 mg/l EC10

Information based on a structurally similar material

### BACTERIA TEST RESULTS

**Test:** Respiration Inhibition (OECD 209)

**Duration:** 3 hr

**Species:** Activated Sludge - Bacterial

177 mg/l EC50

### DEGRADATION

**Test:** Closed Bottle (OECD 301D)

**Duration:** 28 day **Procedure:** Ready biodegradability

22.3 % This material is not readily biodegradable.

### 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
2-phenoxyethyl acrylate (48145-04-6)	LC50 = 10mg/L - Leuciscus idus (96hrs)

Component / CAS No.	Toxicity to Water Flea
2-phenoxyethyl acrylate (48145-04-6)	EC 50 = 1.21 mg/L - Daphnia magna (48hrs)

Component / CAS No.	Toxicity to Algae
2-phenoxyethyl acrylate (48145-04-6)	EC50 = 4.4 mg/L - Desmodesmus subspicatus (72hrs)

Component / CAS No.	Partition coefficient
2-phenoxyethyl acrylate (48145-04-6)	2.58



### 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 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.

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### 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: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class: 9

Packing Group: III

UN/ID Number: UN3082

Transport Label Required:       Miscellaneous  
  Marine Pollutant

Marine Pollutant

TECHNICAL NAME (N.O.S.): 2-PHENOXYETHYL ACRYLATE

Comments:                               Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

#### TRANSPORT CANADA

Dangerous Goods? X

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class: 9

Packing Group: III

UN Number: UN3082

Transport Label Required:       Miscellaneous  
  Marine Pollutant

Marine Pollutant

TECHNICAL NAME (N.O.S.): 2-PHENOXYETHYL ACRYLATE

#### ICAO / IATA

Dangerous Goods? X

UN PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport Hazard Class: 9  
Packing Group: III  
UN Number: UN3082  
Transport Label Required: Miscellaneous  
TECHNICAL NAME (N.O.S.): 2-PHENOXYETHYL ACRYLATE

## IMO

Dangerous Goods? X

UN PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport Hazard Class: 9

UN Number: UN3082

Packing Group: III

Transport Label Required: Miscellaneous  
Marine Pollutant

Marine Pollutant

TECHNICAL NAME (N.O.S.): 2-PHENOXYETHYL ACRYLATE

## SPECIAL PRECAUTIONS FOR USER

Keep away from heat.

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## 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.

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

**Philippines:** All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine 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.

<b>Component / CAS No.</b>	<b>%</b>	<b>TPQ (lbs)</b>	<b>RQ(lbs)</b>	<b>S313</b>	<b>TSCA 12B</b>
2-phenoxyethyl acrylate 48145-04-6	99 - 100	None	0	Yes	No

**PRODUCT HAZARD CATEGORY UNDER SECTIONS 311 AND 312 OF EPCRA****Physical Hazards**

Not applicable

**Health Hazards**

Reproductive toxicity

Respiratory or Skin Sensitization

**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 1
- Revised Section 2
- Revised Section 3
- Revised Section 9
- Revised Section 11
- Revised Section 12

**Date Prepared:** 09/28/2018

**Date of last significant revision:** 09/05/2018

**Component - Hazard Statements**

2-phenoxyethyl acrylate

H317 - May cause an allergic skin reaction.

H361 - Suspected of damaging fertility or the unborn child.

H401 - Toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

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

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