**SDS:** 0018008
**Date Prepared:** 03/04/2024

# SAFETY DATA SHEET

## 1. IDENTIFICATION

| | |
|---|---|
| **Product Name:** | **DPHA** |
| **Synonyms:** | None |
| **Product Description:** | Dipentaerythritol penta/hexa acrylate |
| **Molecular Formula:** | Complex Reaction Product |
| **Molecular Weight:** | Complex Reaction Product |
| **Intended/Recommended Use:** | Radiation curable coating ingredient, Coatings & Inks |
| **Uses advised against:** | 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.

## 2. HAZARDS IDENTIFICATION

**GHS Classification**
Serious Eye Damage / Eye Irritation Hazard Category 2A
Skin Sensitizer Hazard Category 1A
Aquatic Environment Acute Hazard Category 3
Aquatic Environment Chronic Hazard Category 3

**LABEL ELEMENTS**

**Signal Word**
WARNING

**Hazard Statements**
Causes serious eye irritation
May cause an allergic skin reaction
Harmful to aquatic life
Harmful to aquatic life with long lasting effects

**Precautionary Statements**

Wash face, hands and any exposed skin thoroughly after handling.
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 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.
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 |
|---|---|---|
| Complex reaction product consisting primarily of dipentaerythritol hexaacrylate (CASRN 29570-58-9) and dipentaerythritol pentaacrylate (CASRN 60506-81-2)<br>- | ~ 100 | Eye Irrit. 2A (H319)<br>Skin Sens. 1A (H317)<br>Aquatic Acute 3 (H402)<br>Aquatic Chronic 3 (H412) |
| Toluene<br>108-88-3 | <= 0.1 | Flam. Liq. 2 (H225)<br>Repr. 2 (H361)<br>STOT RE 2 (H373)<br>STOT SE 3 (H336)<br>Skin Irrit. 2 (H315)<br>Asp. Tox. 1 (H304)<br>Aquatic Acute 2 (H401)<br>Aquatic Chronic 3 (H412) |

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:**
Not an expected route of exposure.

**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:**
Material is not expected to be harmful by ingestion. No specific first aid measures are required.

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

**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:**
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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves and eye/face protection.

**Special Handling Statements:** Provide good ventilation of working area (local exhaust ventilation if necessary).

Avoid excessive heat, contamination or exposure to direct sunlight to prevent polymerization.

**STORAGE**
Keep away from heat sources and direct sunlight. Store in a cool, dry, well ventilated place and keep container tightly closed.

**Storage Temperature:** Store at 4 - 40 °C 39 - 104 °F
**Reason:** Quality.

## 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 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. 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)

**108-88-3 Toluene**

| | |
|---|---|
| OSHA (PEL): | 200 ppm (TWA)<br>300 ppm (Ceiling) |
| ACGIH (TLV): | 20 ppm (TWA) |
| Other Value: | Not established |

### Biological Exposure Limit(s)

**Toluene 108-88-3**

| | |
|---|---|
| Biological Exposure Indices (ACGIH) | 0.02 mg/L (blood - prior to last shift of workweek)<br>0.03 mg/L (urine - end of shift)<br>0.3 mg/g creatinine (urine - end of shift) |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Color:** | yellowish |
| **Appearance:** | liquid |
| **Odor:** | ester acrylate |
| **Boiling Point:** | 212 °F Decomposition prior to boiling |
| **Melting Point:** | -36 - -37 °C -33 - -35 °F Glass transition point |
| **Vapor Pressure:** | 0.013 hPa @ 25 °C |
| **Specific Gravity/Density:** | 1.196 g/cm³ |
| **Vapor Density:** | Not available |
| **Percent Volatile (% by wt.):** | < 0.5 % |
| **pH:** | Not available |
| **Saturation In Air (% By Vol.):** | Not available |
| **Evaporation Rate:** | Not available |
| **Solubility In Water:** | 6 mg/l @ 25 °C |
| **Volatile Organic Content:** | Not available |
| **Flash Point:** | > 100 °C 212 °F Setaflash Closed Cup |
| **Flammable Limits (% By Vol):** | Not applicable |
| **Autoignition Temperature:** | Not available |
| **Decomposition Temperature:** | Not available |
| **Partition coefficient n-octanol/water (log value):** | 0.25 - 4.55 @ 20 °C OECD 117 |
| **Odor Threshold:** | Not available |
| **Viscosity (Kinematic):** | Not available |
| **Viscosity (Dynamic):** | 13000 - 23000 mPa.s @ 25 °C |
| **Flammability:** | Normal combustion |
| **Oxidizing Properties:** | No |

## 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. |
| **Materials To Avoid:** | Avoid contact with peroxides.<br>Avoid free radical producing initiators.<br>Avoid contact with reactive metals.<br>Contact with alkalis.<br>They give an exothermic reaction with the product.<br>Unintentional contact with them should be avoided. |
| **Hazardous Decomposition Products:** | Carbon dioxide<br>Carbon monoxide (CO) |

## 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Eyes, Skin, 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:** 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 | rat | Acute LD50 | > 2000 mg/kg (tested) |
| dermal | rabbit | Acute LD50 | > 2000 mg/kg<br>Toxicological studies of a comparable product. |

| | | | | | | |
|---|---|---|---|---|---|---|
| Inhalation | rat | Acute LC50 | 4 | hr | Not an expected route of exposure | |

**LOCAL EFFECTS ON SKIN AND EYE**

| | | | |
|---|---|---|---|
| Acute Irritation | dermal | rabbit | Not irritating (tested) |
| Acute Irritation | eye | rabbit | Irritating (tested) |

**ALLERGIC SENSITIZATION**

| | | | |
|---|---|---|---|
| Sensitization Local Lymph Node Assay | Skin | mouse | Sensitizing (tested) |
| Sensitization | respiratory | Not an expected route of exposure | |

**SUBACUTE/SUBCHRONIC TOXICITY**

| | | | | | |
|---|---|---|---|---|---|
| oral | rat | 75 | mg/kg/day | Negative | Toxicological studies of a comparable product. |

**GENOTOXICITY**

**Assays for Gene Mutations**

| | | |
|---|---|---|
| Ames Salmonella Assay | Negative, (tested) | |
| In Vitro Mammalian Cell Gene Mutation Assay (HGPRT) | V79, genetic marker HPRT | Not mutagenic |
| Mouse Micronucleus Assay | mouse | Negative |

**REPRODUCTIVE TOXICITY**

| | | | |
|---|---|---|---|
| oral (gavage) | rat | Negative | Toxicological studies of a comparable product. |

**OTHER INFORMATION**

The toxicity data above are the results from Allnex sponsored studies or from the available public literature.

**HAZARDOUS INGREDIENT TOXICITY DATA**

Complex reaction product consisting primarily of dipentaerythritol hexaacrylate (CASRN 29570-58-9) and dipentaerythritol pentaacrylate (CASRN 60506-81-2) has an acute oral (rat) LD50 value of > 2000 mg/kg. The dermal (rabbit) LD50 is > 2000 mg/kg (based on a similar substance). The substance is not irritating to skin but moderately irritating to eye and was found to be a skin sensitizer in the mouse local lymph node assay. Based on the results of in vitro and in vivo testing, the substance is not considered to be genotoxic. No fertility or developmental effects were seen in reproductive toxicity studies.

Toluene has acute oral (rat) and dermal (rabbit) LD50 values of 4,328 mg/kg and 12124 mg/kg, respectively. The acute 4-hour inhalation (rat, female) LC50 value is 5,060 ppm (19.07 mg/L). Toluene is a moderate skin irritant. Inhalation overexposure to toluene vapor can cause headache, fatigue, nausea, and central nervous system depression. Sustained inhalation of high levels of toluene has been shown to cause reversible kidney and liver damage. Subchronic inhalation of toluene vapors have caused permanent hearing loss, decreased learning capabilities and damage to the eyes in laboratory animal tests. Deliberate inhalation of high concentrations of toluene vapor by pregnant women has been shown to adversely affect the fetus. These fetotoxic effects include intrauterine growth retardation and delayed postnatal development. The fetotoxic effects of toluene seen in laboratory animals are similar to those seen in humans. Ingestion of toluene in laboratory animals caused mild gastritis and harmful effects on the respiratory system, kidneys, liver and heart. Ingestion in laboratory animals also caused harmful effects on the central nervous system and death. It has also been reported that subchronic ingestion of toluene caused brain and bladder damage in laboratory animals. Due to synergistic effects, the toxicity of toluene may be enhanced by exposure to n-hexane, benzene, xylene, acetylsalicylic acid and chlorinated hydrocarbons. The literature reports that toluene is an aspiration hazard, that acute oral exposure resulted in reversible visual dysfunction, and that chronic exposure has caused altered immune function in animals. Toluene is a chemical known to the State of California to cause reproductive toxicity.

**WARNING:** 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.

This material is not readily biodegradable.

### ECOTOXICITY

### ALGAE TEST RESULTS

**Test:** Growth Inhibition (OECD 201)
**Duration:** 0-72 hr
**Species:** Pseudokirchneriella subcapitata

| | | |
|---|---|---|
| > 100 mg/l | ErL50 | As Water Accommodating Fraction. |
| > 36 mg/l | ErC50 | As Water Accommodating Fraction |

### FISH TEST RESULTS

**Test:** Acute toxicity, freshwater (OECD 203)
**Duration:** 96 hr. **Procedure:** Static.
**Species:** Carp (Cyprinus carpio)

| | | |
|---|---|---|
| 13 mg/l | LL50 | As Water Accommodating Fraction |

### INVERTEBRATE TEST RESULTS

**Test:** Acute Immobilization (OECD 202)
**Duration:** 48 hr **Procedure:** Static
**Species:** Water Flea (Daphnia magna)

| | | |
|---|---|---|
| 35 mg/l | EL50 | As Water Accommodating Fraction |
| 8.4 mg/l | NOEC | As Water Accommodating Fraction |

### BACTERIA TEST RESULTS

**Test:** Respiration Inhibition (OECD 209)
**Duration:** 3 hr
**Species:** Activated Sludge - Bacterial

| | | |
|---|---|---|
| > 100 mg/l | EC50 | Information based on a structurally similar material |

### OTHER TEST RESULTS

**Test:** Soil Microorganisms: Nitrogen Transformation Test (OECD 216)
**Duration:** 28 day **Procedure:** Artificial soil test

| | |
|---|---|
| 1000 mg/kg | NOEC |

**Test:** Earthworm Reproduction Test (OECD 222)
**Duration:** 56 day **Procedure:** Artificial soil test
**Species:** Earthworm (Eisenia andrei)

| | |
|---|---|
| 115 mg/kg | EC50 |

**DEGRADATION**

**Test:** CO2 Evolution: Modified Sturm (OECD 301B)
**Duration:** 28 day **Procedure:** Ready biodegradability
0 - 2 % 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 |
|---|---|
| Complex reaction product consisting primarily of dipentaerythritol hexaacrylate (CASRN 29570-58-9) and dipentaerythritol pentaacrylate (CASRN 60506-81-2) (-) | LL50 = 13 mg/L - Carp (Cyprinus carpio) (96h) |
| Toluene (108-88-3) | LC50 = 5.5 mg/L - Oncorhynchus kisutch (96h)<br>NOEC = 1.4 mg/L - Oncorhynchus kisutch (40d) |

| Component / CAS No. | Toxicity to Water Flea |
|---|---|
| Complex reaction product consisting primarily of dipentaerythritol hexaacrylate (CASRN 29570-58-9) and dipentaerythritol pentaacrylate (CASRN 60506-81-2) (-) | EL50 = 35 mg/L - Daphnia magna (48h)<br>NOEC = 8.4 mg/L - Daphnia magna (48h) |
| Toluene (108-88-3) | EC50 = 3.78 mg/L - Ceriodaphnia dubia (48h)<br>NOEC = 0.74 mg/L - Ceriodaphnia dubia(7d) |

| Component / CAS No. | Toxicity to Algae |
|---|---|
| Complex reaction product consisting primarily of dipentaerythritol hexaacrylate (CASRN 29570-58-9) and dipentaerythritol pentaacrylate (CASRN 60506-81-2) (-) | ErL50 = >100 mg/L - Pseudokirchneriella subcapitata (72h)<br>ErC50 = >36 mg/l - Pseudokirchneriella subcapitata (72h) |
| Toluene (108-88-3) | EC50 = 134 mg/L - Chlorella vulgaris (3h) - reduced photosynthesis rate<br>NOEC = 10 mg/L - Skeletonema costatum (72h) |

| Component / CAS No. | Partition coefficient |
|---|---|
| Complex reaction product consisting primarily of dipentaerythritol hexaacrylate (CASRN 29570-58-9) and dipentaerythritol pentaacrylate (CASRN 60506-81-2) (-) | log Kow = 3.44 |
| Toluene (108-88-3) | 2.73 |

## 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.

## 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

**SPECIAL PRECAUTIONS FOR USER**
Protect against external heat sources higher than +40°C/104°F.

## 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.

**United Kingdom:** When purchased from allnex UK this product is compliant with the UK-REACH Regulation as all its components are either notified, excluded, exempt and/or registered. If the material has been purchased by your legal entity based in GB from an allnex legal entity based in the EEA (EU or Norway) in 2019 or 2020, you can continue to import the material into GB as it is covered by allnex DUIN.

**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:** 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 and ISHL) inventories or are not required to be listed on the Japanese inventories.

**Korea:** All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory. When purchased from Allnex Korea or Chemart distributor this product is compliant with the ARECs (the Act on the Registration and Evaluation, etc. of Chemical Substances). All its components are either excluded, exempt, pre-notified and/or registered. When purchased from another allnex entity, please contact PSRA-KREACH@allnex.com to check the possibility to be covered by our Only Representative.

**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).

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

**Turkey:** When purchased directly from Allnex by a Turkish legal entity, this product is compliant with the PRE-registration requirements of KKDIK as all its components are either pre-registered, excluded and/or exempt.

**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**
Respiratory or Skin Sensitization
Serious eye damage or eye irritation

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## 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 3

**Date Prepared:** 03/04/2024
**Date of last significant revision:** 03/04/2024

**Component - Hazard Statements**
Complex reaction product consisting primarily of dipentaerythritol hexaacrylate (CASRN 29570-58-9) and dipentaerythritol pentaacrylate (CASRN 60506-81-2)
H319 - Causes serious eye irritation.
H317 - May cause an allergic skin reaction.
H402 - Harmful to aquatic life.
H412 - Harmful to aquatic life with long lasting effects.
Toluene
H225 - Highly flammable liquid and vapor.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H373 - May cause damage to organs through prolonged or repeated exposure.
H361d - Suspected of damaging the unborn child.
H401 - Toxic to aquatic life.
H412 - Harmful to aquatic life with long lasting effects.

**Emergency phone numbers for other regions**

**Asia Pacific**
Australia: +61 1800 022 037 (Allnex Australia)
China (PRC): +86 532 8388 9090 (NRCC)
India: 000 800 100 7479 (toll free) or +65 3158 1198 (Carechem 24)
Indonesia: 007 803 011 0293 (Carechem 24)
Japan: 0120 015 230 (toll free) (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)
**Northern Asia**
+44 (0) 1235 239 670 (Carechem 24)
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+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)