



SDS: 0058067  
Date Prepared: 02/15/2018

## SAFETY DATA SHEET

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### 1. IDENTIFICATION

**Product Name:** EBECRYL® 4654 radiation curing resins  
**Synonyms:** None  
**Product Description:** Urethane acrylate in organic solvent  
**Molecular Formula:** Mixture  
**Molecular Weight:** Mixture  
**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:**

**Asia Pacific:**

Australia: +61 2801 44558 (Carechem 24)  
China (PRC): +86(0)532-8388-9090 (NRCC)  
Japan: +81 345 789 341 (Carechem 24)  
New Zealand: +64 9929 1483 (Carechem 24)  
India: 000 800 100 7479 (toll free) or +65 3158 1198 (Carechem 24)  
Korea: +82 2 3479 8401 (Carechem 24)  
Malaysia: +60 3 6207 4347 (Carechem 24)  
Philippines: +63 2 231 2149 (Carechem 24)  
All Others: +65 3158 1074 (Carechem 24)

**Europe/Africa/Middle East (Carechem 24):**

Europe, Middle East, Africa, Israel: +44 (0) 1235 239 670  
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**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)

**Canada and USA (Carechem 24 - Allnex29003-NCEC):** +1-866-928-0789 (toll free) or +1-215-207-0061

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### 2. HAZARDS IDENTIFICATION

**GHS Classification**

Flammable Liquids Hazard Category 3  
Specific Target Organ Toxicity - Single Exposure Hazard Category 3  
Skin Corrosion / Irritation Hazard Category 2  
Serious Eye Damage / Eye Irritation Hazard Category 2A

**LABEL ELEMENTS**



**Signal Word**  
WARNING

**Hazard Statements**

Flammable liquid and vapor  
May cause drowsiness or dizziness  
Causes skin irritation  
Causes serious eye irritation

**Precautionary Statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Ground/Bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Use only outdoors or in a well-ventilated area.  
Wash face, hands and any exposed skin thoroughly after handling.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
In case of fire: Use CO2, dry chemical, or foam for extinction.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
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.  
Store in a well-ventilated place. Keep cool.  
Store in a well-ventilated place. Keep container tightly closed.  
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.  
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
Butyl acetate 123-86-4	35 - 45	Flam. Liq. 3 (H226) STOT SE 3 (H336) Skin Irrit. 3 (H316) Eye Irrit. 2B (H320)	-
Urethane acrylate -	25 - 35	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319)	-

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:**

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.

**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

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.

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## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:**

Use water spray, alcohol foam, carbon dioxide or dry chemical to extinguish fires. Water stream may be ineffective.

**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:**

Remove sources of ignition. 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.

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## 7. HANDLING AND STORAGE

**HANDLING**

**Precautions:** Keep away from heat, sparks and open flame. - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and other equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye/face protection. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid breathing vapors or spray mist.

**Special Handling Statements:** This material contains a flammable or combustible liquid and vapor. Provide good ventilation of working area (local exhaust ventilation if necessary). Containers must be bonded and grounded when pouring or transferring material. Avoid excessive heat, contamination or exposure to direct sunlight to prevent polymerization.

**STORAGE**

Areas containing this material should have fire safe practices and electrical equipment in accordance with applicable regulations and/or guidelines. Standards are primarily based on the material's flashpoint, but may also take into account properties such as miscibility with water or toxicity. All local and national regulations should be followed. In the Americas, National Fire Protection Association (NFPA) 30: Flammable and Combustible Liquids Code, is a widely used standard. NFPA 30 establishes storage conditions for the following classes of materials: Class I Flammable Liquids, Flashpoint <37.8 °C. Class II Combustible Liquids, 37.8 °C < Flashpoint <60 °C. Class IIIa Combustible Liquids, 60 °C < Flashpoint < 93 °C. Class IIIb Combustible Liquids, Flashpoint > 93 °C. Protect from direct sunlight and all heat sources in order to avoid sintering. Keep away from sources of ignition - refrain from smoking. Take precautionary measures against electrostatic loading - earthing necessary during loading operations. Observe the general rules of industrial fire protection.

**Storage Temperature:** Store at 4 - 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.

**Skin Protection:**

Avoid skin contact. Wear impermeable gloves.

**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:

Polyvinyl alcohol (PVA), thickness: 0.2-0.3 mm, break through time: > 480 min

Polyethylene Nylon (PE), thickness: > 0.062 mm, break through time: > 480 min

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

Butyl rubber (VB), thickness: 0.30 mm, break through time: up to 120 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:

Nitrile rubber (NBR), thickness: 0.12 mm

Natural rubber (NRL), thickness: 0.75 mm

Neoprene rubber (NE), thickness: 0.40 mm

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

**Additional Advice:**

Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

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**Exposure Limit(s)****123-86-4 Butyl acetate**

OSHA (PEL):	150 ppm (TWA) 710 mg/m <sup>3</sup> (TWA)
ACGIH (TLV):	150 ppm (STEL) 50 ppm (TWA)
Other Value:	Not established

**Biological Exposure Limit(s)**

No values have been established.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Color:</b>	light colored
<b>Appearance:</b>	Clear to slightly hazy liquid.
<b>Odor:</b>	butyl acetate
<b>Boiling Point:</b>	> 126 °C 258 °F (value for solvent)
<b>Melting Point:</b>	> -78 °C -108 °F Solvent dependent
<b>Vapor Pressure:</b>	13 - 15 hPa @ 25 °C (value for butyl acetate)
<b>Specific Gravity/Density:</b>	1.00 - 1.05 g/cm <sup>3</sup> @ 23°C
<b>Vapor Density:</b>	(value for solvent)
<b>Percent Volatile (% by wt.):</b>	35 - 45 approximate
<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>	Not available
<b>Volatile Organic Content:</b>	35 - 45 % -
<b>Flash Point:</b>	~ 34 °C 93 °F Setaflash Closed Cup
<b>Flammable Limits (% By Vol):</b>	Lower: 1.2 Upper: 7.5 (values for n-butyl acetate)
<b>Autoignition Temperature:</b>	~ 404 °C 760 °F (value for solvent)
<b>Decomposition Temperature:</b>	Not available
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>Odor Threshold:</b>	Not available
<b>Viscosity (Kinematic):</b>	Not available
<b>Viscosity (Dynamic):</b>	600 - 1200 mPa.s @ 25 °C

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## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No information available
<b>Stability:</b>	Stable
<b>Conditions To Avoid:</b>	Extreme heat, sparks, open flame, and oxidizers. Prevent loss of dissolved oxygen. Oxidizing agents, reducing agents, peroxides, acids and bases and direct sunlight, loss of dissolved oxygen. To prevent loss of dissolved oxygen: do not heat, donot use an inert blanket, and do not sparge with an inert gas.
<b>Polymerization:</b>	May occur
<b>Conditions To Avoid:</b>	Avoid contamination with metallic impurities and peroxides. Avoid contact with free radical initiators (peroxides, sulfides, or redox systems) and sunlight or ultraviolet light. Excessive heat, peroxides, polymerization catalysts.
<b>Materials To Avoid:</b>	Iron or rust may trigger rapid exothermic polymerization. Reactions with peroxides and other radical components. Reactions with strong alkalies. Reactions with strong bases.
<b>Hazardous Decomposition Products:</b>	uncombusted hydrocarbons (smoke) oxides of carbon and/or nitrogen

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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:** 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:** 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.

**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:** May cause drowsiness or dizziness.

**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	No data

### LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	dermal	Irritating
Acute Irritation	eye	Irritating

### ALLERGIC SENSITIZATION

Sensitization	Skin	No data
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.

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.

### HAZARDOUS INGREDIENT TOXICITY DATA

Butyl acetate (CAS# 123-86-4) has acute oral (rat) and dermal (rabbit) LD50 values of 10,768 mg/kg and >17,600 mg/kg, respectively (RTECS). The acute 4-hr inhalation (rat) LC50 = >2000 ppm (9.5 mg/L)(NTP). Direct contact with this material may cause moderate eye and skin irritation. In humans, exposure concentrations of 200-300 ppm resulted in slight eye and nose irritation while short exposure to 3300 ppm caused extreme irritation of the eyes and nose (HSDB). Overexposure to solvent vapors may cause irritation of the eyes, nose, and throat. Severe inhalation overexposure may cause weakness, drowsiness, and unconsciousness. Prolonged dermal exposure may produce irritation of the skin. This material did not cause mutagenic activity when tested in the bacterial mutagenicity assay. When tested for reproductive effects in rats, fetotoxicity (stunted growth) and abnormalities of the musculoskeletal system was noted at an exposure concentration of 1500 ppm/7h/day during days 7-16 of pregnancy (HSDB).

The toxicological properties of urethane acrylate have not been fully investigated. Direct contact with this material may cause moderate eye and skin irritation. Prolonged or repeated contact may cause allergic skin reaction in individuals previously sensitized to acrylates.

## 12. ECOLOGICAL INFORMATION

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

The ecological properties of this material have not been fully investigated.

### RESULTS OF PBT AND vPvB ASSESSMENT

Not determined

### HAZARDOUS INGREDIENT TOXICITY DATA

Component / CAS No.	Toxicity to Fish
Butyl acetate (123-86-4)	LC50 = 62 mg/L - <i>Leuciscus idus</i> (96h) LC50 = 17 - 19 mg/L - <i>Pimephales promelas</i> (96h) LC50 = 100 mg/L - <i>Lepomis macrochirus</i> (96h)
Urethane acrylate (-)	Not available

Component / CAS No.	Toxicity to Water Flea
Butyl acetate (123-86-4)	EC50 = 72.8 mg/L - <i>Daphnia magna</i> (24h)
Urethane acrylate (-)	Not available

Component / CAS No.	Toxicity to Algae
Butyl acetate (123-86-4)	EC50 = 674.7 mg/L - <i>Desmodesmus subspicatus</i> (72h)
Urethane acrylate (-)	Not available

Component / CAS No.	Partition coefficient
Butyl acetate (123-86-4)	1.81
Urethane 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 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? X  
 PROPER SHIPPING NAME: RESIN SOLUTION  
 Hazard Class: 3  
 Packing Group: III  
 UN/ID Number: UN1866  
 Transport Label Required: Flammable Liquid

<u>Component / CAS No.</u>	<u>Hazardous Substances/Reportable Quantity of Product (lbs)</u>
Butyl acetate	11111

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

### TRANSPORT CANADA

Dangerous Goods? X  
 PROPER SHIPPING NAME: RESIN SOLUTION  
 Hazard Class: 3  
 Packing Group: III  
 UN Number: UN1866  
 Transport Label Required: Flammable Liquid

### ICAO / IATA

Dangerous Goods? X  
 UN PROPER SHIPPING NAME: RESIN SOLUTION  
 Transport Hazard Class: 3  
 Packing Group: III  
 UN Number: UN1866  
 Transport Label Required: Flammable Liquid

### IMO

Dangerous Goods? X  
 UN PROPER SHIPPING NAME: RESIN SOLUTION  
 Transport Hazard Class: 3

UN Number: UN1866  
 Packing Group: III  
 Transport Label Required: Flammable Liquid

### SPECIAL PRECAUTIONS FOR USER

Protect against external heat sources above +40°C/104°F.

## 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:** One or more components of this product are NOT included on the Canadian Domestic Substances List (DSL).

**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.

**China:** One or more components of this product are NOT included on the Chinese (IECSC) inventory.

**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.

**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.

Component / CAS No.	%	TPQ (lbs)	RQ(lbs)	S313	TSCA 12B
Butyl acetate 123-86-4	35 - 45	None	5000	No	No

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

#### Physical Hazards

Flammable (gases, aerosols, liquids, or solids)

#### Health Hazards

Skin Corrosion or Irritation

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

## 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: 3 - Liquids and solids that can be ignited under almost all ambient temperature conditions.

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

**Reasons For Issue:** Revised Section 2  
Revised Section 3  
Revised Section 4  
Revised Section 11  
Revised Section 16

**Date Prepared:** 02/15/2018

**Date of last significant revision:** 02/15/2018

#### Component - Hazard Statements

Butyl acetate

H226 - Flammable liquid and vapor.

H336 - May cause drowsiness or dizziness.

H316 - Causes mild skin irritation.

H320 - Causes eye irritation.

Urethane acrylate

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

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

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