



# SAFETY DATA SHEET

Issue Date 28-Feb-2023

Revision Date

Version 2

## 1. IDENTIFICATION

### Product identifier

**Product Name** Aliphatic 60 Urethane - Part A

### Recommended use of the chemical and restrictions on use

**Recommended Use** Concrete Coating.

**Uses advised against** No Data

### Details of the supplier of the safety data sheet

#### **Distributor Address**

ResinForce Products, LLC 12 Pixley Industrial Pkwy, Box 7 Rochester, NY 14624 | 585-623-5075

### Emergency telephone number

**Company Phone Number** 585-623-5075

**24 Hour Emergency Phone Number** CHEMTEL (800)-255-3924

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 5
Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 2
Flammable liquids Category 2, Hazardous to the Aquatic Environment - Long Term (Chronic) Hazard Category 2	

### Label elements

#### **Emergency Overview**

**Danger!**

#### **Hazard statements**

Highly flammable  
Toxic to Aquatic Life with Long Lasting Effects  
Causes Serious Eye Irritation  
May Cause Respiratory Irritation  
May Cause Drowsiness or Dizziness  
May be Harmful if Swallowed  
May be Harmful if Swallowed and Enters Airways  
Causes Skin Irritation

**Appearance** Transparent Liquid**Physical state** liquid**Odor** Solvent**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ ventilating / lighting/ .? / equipment  
 Use only non-sparking tools  
 Take action to prevent static discharges  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Use only outdoors or in a well-ventilated area  
 Avoid release to the environment  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 If skin irritation occurs: Get medical advice or attention.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contacts, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
 IF SWALLOWED: Immediately call a POISON CONTROL CENTER/doctor  
 Do NOT induce vomiting.  
 Take off contaminated clothing and wash before reuse  
 In case of fire use, "alcohol resistant" foam, dry chemical, halon or carbon dioxide to extinguish.  
 Collect spillage

**Precautionary Statements - Storage**

Store in well-ventilated place. Keep Cool. Keep container tightly closed. Store locked up.

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local/regional/national regulations.

**Hazards not otherwise classified (HNOC)**

Repeated exposure may cause skin dryness or cracking

**Other Information**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Chemical Name	CAS No.	Weight-%	Trade Secret
Polyester Polyol	26745-09-5	30 - 60	*
p-chloro-a,a,a-trifluorotoluene	98-56-6	10 - 30	*

n-Butyl acetate	123-86-4	10 - 30	*
Dimethyl carbonate	616-38-6	7 - 13	*
Methyl n-amyl ketone	110-43-0	5 - 10	*
Ethyl 3-ethoxypropanoate	763-96-9	1 - 5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### Description of first aid measures

<b>General advice</b>	Move out of the dangerous area. Consult a physician. Provide this Safety Data Sheet to the doctor in attendance.
<b>Eye contact</b>	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.
<b>Skin contact</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

##### Most important symptoms and effects, both acute and delayed

**Symptoms** Eye, Skin, and Respiratory Irritation. May cause allergic skin reaction.

##### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically. For additional information, see Safety Data Sheet.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Dry Chemical, Alcohol Resistant Foam, Halon or Carbon Dioxide.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

##### Specific hazards arising from the chemical

In a fire or if heated a pressure increase may occur and the container may burst.

**Hazardous combustion products** Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

##### Explosion data

**Sensitivity to Mechanical Impact** Not available.

**Sensitivity to Static Discharge** May be ignited by friction, heat, sparks or flames.

##### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use personal protective equipment as required. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not allow product to enter any drains or waterways.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

**Methods for cleaning up** Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal. Use clean non-sparking tools to collect absorbed material. Dispose according to local regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take measures to prevent the buildup of electrostatic charge. Use non-sparking tools. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Incompatible materials** Keep away from strong oxidizing agents, strong alkalis, and strong acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** Dimethyl Carbonate - CAS 616-38-6: None Established. Petroleum Naphtha, Light Aromatic, CAS# 64742-95-6: OSHA 100 ppm TWA.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
p-chloro-a,a,a-trifluorotoluene 98-56-6	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F TWA: 2.5 mg/m <sup>3</sup> dust	-
n-Butyl acetate 123-86-4	STEL: 200 ppm TWA: 150 ppm	TWA: 150 ppm TWA: 710 mg/m <sup>3</sup>	TWA: 150 ppm STEL: 200 ppm STEL: 950 mg/m <sup>3</sup>
2-methoxy-1-methylethyl acetate 108-65-6	TWA: 50 ppm		

### Appropriate engineering controls

**Engineering Controls** General/Local Ventilation Recommended.

### Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and body protection</b>	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant gloves at minimum. Wash skin immediately upon contact. Wash hands at mealtime and end of shift.
<b>Respiratory protection</b>	Use respiratory protection unless adequate local exhaust ventilation is provided, or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after breaks and at the end of the workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	liquid	<b>Odor</b>	Solvent
<b>Appearance</b>	Transparent Liquid	<b>Odor threshold</b>	No data available
<b>Color</b>	Transparent Liquid - May have slight color due to performance additives.		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not Relevant	
Melting point / freezing point	Not Available	
Boiling point / boiling range	194°F (90°C)	
Flash point	18.3 °C (65 °F)	CC (closed cup)
Evaporation rate	Not Available	
Flammability (solid, gas)	Not Relevant	
Flammability Limit in Air		
Upper flammability limit:	7.0%	
Lower flammability limit:	1.0%	
Vapor pressure	Not Available	
Vapor density	Not Available	
Relative density	1.13 @ 70 Degrees F	
Water solubility	Insoluble in water	
Solubility in other solvents	Not Available	
Partition coefficient	Not Available	
Autoignition temperature	Not Available	
Decomposition temperature	Not Available	
Kinematic viscosity	Not Available	
Dynamic viscosity	Not Available	
Explosive properties	Not Available	
Oxidizing properties	Not Available	

### Other Information

Softening point	Not Relevant
Molecular weight	Not Available
VOC Content (%)	< 250 g/L (Mixed A&B)
Density	Not Available
Bulk density	Not Available

## 10. STABILITY AND REACTIVITY

### Reactivity

None

**Chemical stability**

Stable under normal conditions.

**Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

Keep away from strong oxidizing agents, strong alkalis, and strong acids.

**Hazardous Decomposition Products**Hazardous decomposition products formed under fire conditions, carbon dioxide (CO<sub>2</sub>), carbon monoxide.**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Direct contact and vapor inhalation.
<b>Eye contact</b>	Direct contact.
<b>Skin contact</b>	Direct contact.
<b>Ingestion</b>	Direct contact.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
p-chloro-a,a,a-trifluorotoluene 98-56-6	= 13 g/kg ( Rat )	> 2 mL/kg ( Rabbit )	= 33 mg/L ( Rat ) 4 h
n-Butyl acetate 123-86-4	-	> 17600 mg/kg ( Rabbit )	= 390 ppm ( Rat ) 4 h
Dimethyl carbonate 616-38-6	= 13000 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	= 140 mg/L ( Rat ) 4 h
2-methoxy-1-methylethyl acetate 108-65-6	LD50 Oral (Rat): 6,190 mg/kg	LD50 Dermal (Rabbit): > 5,000 mg/kg	LC50 (Rat): > 4345 ppm Exposure time: 6 h
2-methoxypropanol 1589-47-5	LD50 Oral (Rat): 5,710 mg/kg	LD50 Dermal (Rabbit): 5,660 mg/kg	

**Information on toxicological effects**

**Symptoms** May cause drowsiness or dizziness if inhaled. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	Causes severe burns. Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes. Risk of serious damage to eyes.
<b>Irritation</b>	Irritating to eyes, respiratory system and skin.
<b>Sensitization</b>	No data available.
<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP
<b>Reproductive toxicity</b>	Not Available.
<b>STOT - single exposure</b>	Not Available.
<b>STOT - repeated exposure</b>	Not Available.

**Aspiration hazard** Not Available.

**Numerical measures of toxicity - Product Information**

**12. ECOLOGICAL INFORMATION**

Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
p-chloro-a,a,a-trifluorotoluene 98-56-6	-	11.5 - 15.8: 48 h Lepomis macrochirus mg/L LC50 static	3.68: 48 h Daphnia magna mg/L EC50
n-Butyl acetate 123-86-4	674.7: 72 h Desmodesmus subspicatus mg/L EC50	17 - 19: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Lepomis macrochirus mg/L LC50 static 62: 96 h Leuciscus idus mg/L LC50 static	72.8: 24 h Daphnia magna mg/L EC50
2-methoxy-1-methylethyl acetate 108-65-6	EC50 (Selenastrum capricornutum (green algae)): > 1,000 mg/l Exposure time: 96 h Test Type: Growth inhibition  NOEC (Selenastrum capricornutum (green algae)): >= 1,000 mg/l Exposure time: 96 h Test Type: Growth inhibition	LC50 (Pimephales promelas (fathead minnow)): 408 mg/l Exposure time: 96 h  LC50 (Oryzias latipes): 63.5 mg/l Exposure time: 14 d  NOEC (Oryzias latipes): 47.5 mg/l Exposure time: 14 d	LC50 (Daphnia): 408 mg/l Exposure time: 48 h  NOEC (daphnid): >= 100 mg/l Exposure time: 21 d  EC50 (daphnid): > 100 mg/l Exposure time: 21 d

**Persistence and degradability**

No data available.

**Bioaccumulation**

Chemical Name	Partition coefficient
p-chloro-a,a,a-trifluorotoluene 98-56-6	3.7
n-Butyl acetate 123-86-4	1.81

**Other adverse effects** No data available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes** Under RCRA 40 CFR 261 this material is a hazardous waste. Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging** Dispose of in accordance with federal, state and local regulations.

**14. TRANSPORT INFORMATION**

**DOT** UN1263, PAINT, 3, III

**Marine pollutant** Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**IATA** UN1263, PAINT, 3, III

**IMDG** UN1263, PAINT, 3, III

## 15. REGULATORY INFORMATION

### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire hazard</b>	Yes
<b>Sudden release of pressure hazard</b>	Yes
<b>Reactive Hazard</b>	No

### US State Regulations

#### California Proposition 65

This product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm

#### U.S. State Right-to-Know Regulations

#### U.S. EPA Label Information

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<b>NFPA</b>	<b>Health hazards</b> 2	<b>Flammability</b> 3	<b>Instability</b> 0	<b>Physical and Chemical Properties</b> -
<b>HMIS</b>	<b>Health hazards</b> 2	<b>Flammability</b> 3	<b>Physical hazards</b> 0	<b>Personal protection</b> X

**Issue Date** 28-Feb-2023

**Revision Date**



**Revision Note****Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**