

Safety Data Sheet

Revision Date: 07-22-2015
Product Code: 21078

1. IDENTIFICATION

Product Name	SPECIAL URETHANE RETARDER
Product Code	21078
Document ID	G21078
Revision Number	1
Prior Version Date	None
Intended Use	Paint Additive
Restrictions On Use	For Industrial Use Only
Chemical Family	Urethane Cure Retarder
Chemical Manufacturer / Importer	JONES-BLAIR® Company, LLC 2728 Empire Central Dallas, TX 75235 1-214-353-1600
Emergency Telephone Number:	ChemTrec Center 1-800-424-9300 International: 703-527-3887

2. HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Hazard Pictograms



GHS Classification

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Flammable Liquid Category 4

Signal Word

Warning

Hazard Statements

Combustible liquid. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Precautionary Statements

Prevention

Keep away from heat, sparks, open flames and hot surfaces. No smoking. Avoid breathing dust, fume, mist, vapours or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection and face protection.

Response

IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or physician if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing and wash before reuse. In case of fire: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray for extinction.

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Storage	Store locked up. Store in a cool, well-ventilated place. Keep container tightly closed.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards Not Otherwise Classified (HNOC)	Not applicable
Additional Information	Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Component</u>	<u>CAS #</u>	<u>%</u>
Butyl carbitol acetate	124-17-4	70 - 90
Trimethyl orthoformate	149-73-5	10 - 30

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Inhalation	Remove individual to fresh air after an airborne exposure if any symptoms develop as a precautionary measure.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops or persists.
Ingestion	If swallowed, do not induce vomiting. Get medical attention immediately.
Most Important Acute Symptoms and Effects	Not Available
Most Important Delayed Symptoms and Effects	Not Available
Special treatment needed:	No additional first aid information available

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.
Unsuitable Extinguishing Media	No data available
Fire and/or Explosion Hazards	Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire. Container may explode in heat of fire.
Hazardous Combustion Products	Toxic fumes, Toxic gases
Special Protective Equipment and Precautions for Fire-Fighters	Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Follow personal protective equipment recommendations found in Section VIII of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including the material spilled, the quantity of the spill, the area in which the spill occurred. See MSDS sections III, XIII and XV for disposal considerations.

Methods and Material for Containment and Cleaning Up

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Dike with suitable absorbent material. Gather and store in a sealed container pending disposal. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Overexposure may be harmful. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing.

Conditions for Safe Storage

Store in a cool dry place. Keep container(s) closed. Keep away from sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

<u>Chemical Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH STEL</u>
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Appropriate Engineering Controls

Use local exhaust ventilation or other engineering controls to minimize exposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910.

Respiratory Protection

General or local exhaust ventilation is the preferred means of protection. In cases where ventilation is inadequate, respiratory protection may be required to avoid overexposure. Follow respirator manufacturer's directions for respirator use.

Eye Protection

Wear safety glasses with side shields when handling this product.

Skin Protection

Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Clothing suitable to prevent skin contact.

General Hygiene Conditions

As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State

Liquid

Color

Colorless

Odor

No data available

Odor Threshold

No data available

pH

No data available

Melting Point/Freezing Point (°F/°C)

No data available / No data available

Initial Boiling Point and Boiling Range

Low (°F)

217.0

High (°F)

456.0

Flash Point (°F/°C)

168 / 76

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Evaporation Rate	0.01
Flammability (solid, gas)	No data available
Upper Flammable/Explosive Limit	10.7
Lower Flammable/Explosive Limit	0.8
Vapor Pressure	10.00
Vapor Density	7.00 (air = 1)
Relative Density	0.980
Solubility in Water	Minimal; 1-9%
Partition coefficient: n-octanol/water	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature:	No data available
Volatiles, % by volume	100.00
Volatiles, % by weight	100.00
Volatile Organic Chemicals (g/L)	
(Regulatory, Calculated)	974.82
(Actual, Calculated)	974.82
Density	8.04 - 8.24 lbs./Gal

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Contamination.
Hazardous Decomposition Products	Toxic fumes, Toxic gases

11. TOXICOLOGICAL INFORMATION

Routes of Exposure	Inhalation Ingestion Skin contact Eye contact
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Immediate (Acute) Health Effects by Route of Exposure

Inhalation Toxicity	Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea.
Skin Contact	Causes skin irritation.
Skin Absorption	May be harmful if absorbed through skin.
Ingestion Toxicity	Harmful if swallowed.

Long-Term (Chronic) Health Effects

Inhalation	NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
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Product Toxicology Data

Component Toxicology Data

Chemical Component	Oral LD50	Dermal LD50	Inhalation LC50
Butyl carbitol acetate	Oral LD50 Rat 6500 mg/kg	Dermal LD50 Rabbit 14,500 mg/kg	Inhalation LC50 (4h) Rat 72.50 mg/L
Trimethyl orthoformate	Oral LD50 Rat 5000 mg/kg	Dermal LD50 Rabbit > 5000 mg/kg	Inhalation LC50 Rat > 20.00 mg/L

Carcinogen Information

Chemical Name	IARC Carcinogen	OSHA Carcinogen	NTP Carcinogen
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Not applicable

12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available) No data available
Mobility in soil No data available

13. DISPOSAL CONSIDERATIONS

Safe Handling of Waste Refer to other sections of this SDS to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information and does not contain all regulatory transportation details. Refer to all applicable regulations for domestic, international, air, vessel and ground transportation requirements and restrictions.

DOT Basic Description: Paint Related Material
Hazard Class: 3
UN Number: UN1263
Packing Group: III
Other: Not regulated for non-bulk domestic ground shipments for packaging of 450 liters (119 gallons) or less (DOT 49CFR 173.150(f)).

Marine Pollutant: No

15. REGULATORY INFORMATION

TSCA Status All components of this product are either listed on the TSCA Inventory; or, are not subject to the inventory notification requirements.

Regulated Components

<u>SARA EHS Chemicals</u>	<u>CAS #</u>	<u>%</u>
Not applicable		

CERCLA

Not applicable

SARA 313

2-(2-Butoxyethoxy)ethyl acetate	124-17-4	70 - 90
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SARA 311/312

Health (Acute):	Y
Health (chronic):	N
Fire (Flammable):	Y
Pressure:	N
Reactivity:	N

U. S. State Regulations:

California Prop 65 Chemicals

<u>Cancer</u>	<u>CAS #</u>	<u>%</u>
Not applicable		
Reproductive		

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Methyl Alcohol

67-56-1

0.01 - 0.1

Canadian Regulations:

CEPA DSL:

The components of this product ARE listed on the Canadian Domestic Substances List.

WHMIS Hazard Class:

B3

16. OTHER INFORMATION

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Disclaimer

This SDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada's Controlled Product Regulations (CPR). To the best of our knowledge the information contained herein is accurate. Determination of safe handling, application and use of this material is the responsibility of the end user. This information is furnished without warranty, expressed or implied.