



# Safety Data Sheet

Better Chemistry. Better Business

## RETARDER BLEND

Revised: 9/27/16

### 1 IDENTIFICATION

**Product Name:** RETARDER BLEND

**Product Code :**4101110

**Recommended use of the chemical and restrictions on use:**Solvent

**Hubbard-Hall Inc.**

563 South Leonard Street  
Waterbury, CT 06708

**Telephone:** 203-756-5521

**Fax number:** 203-756-9017

Emergency Phone Number

**CHEMTREC:** 1 (800) 424-9300

**International:** 1 (703) 527-3887

### 2 HAZARDS IDENTIFICATION



**Signal Word:** DANGER

- Hazard Category:** Flammable Liquids Hazard Category 2
- Skin Corrosion/Irritation Hazard Category 2
- Specific Target Organ Toxicity (Single Exposure) Hazard Category 3
- Specific Target Organ Toxicity (Repeated Exposure) Hazard Category 2

- Hazard Statements:** Highly flammable liquid and vapor.  
Causes skin irritation.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure.

- Prevention:** 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, and lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Do not breathe dust, fumes, gas, mist, vapors or spray.  
Wash skin thoroughly after handling.  
Use only outdoors or in well ventilated area.  
Wear protective gloves, chemical protective clothing, eye protective goggles and face shield for face protection.

**Response:** If swallowed: Immediately call poison center or doctor.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call poison center/doctor if you feel unwell.

Do NOT Induce vomiting.

If skin irritation occurs: Get Medical advice/attention.

Take off immediately all contaminated clothing and wash it before reuse.

In case of fire: Use water spray (fog), foam, dry chemicals, carbon dioxide, or other type of vapor producing extinguisher.

**Storage:** Store in well ventilated place. Keep container tightly closed.

Store in a well ventilated place. Keep cool.

Store locked up.

**Disposal:** Dispose of contents/container in accordance with local, regional, national, or international regulations.

### 3 COMPOSITION INFORMATION

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
Ethylene Glycol Butyl Ether	-	111-76-2	~15%
Butyl Acetate	1-Butyl Acetate	123-86-4	~75%

### 4 FIRST AID

#### After Inhalation:

Remove exposed person to fresh air and support breathing as needed.

#### After Skin Contact:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If on skin: Wash with water and get medical attention if burned or irritated.

#### After Eye Contact:

If in eyes: wash with plenty of water and get medical attention if burned or irritated.

#### After Ingestion:

Immediately call poison center or doctor and explain the type of exposure to the chemical(s) and provide the name of the chemical(s).

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice whether to induce vomiting. If possible, do not leave individual unattended.

### Most Important Symptoms/Effects

#### Inhalation:

Breathing of vapor or mist is possible. Breathing this material may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits (see section 8). It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Causes respiratory tract irritation. Harmful if inhaled. Inhalation may cause central nervous system effects.

#### Eye:

Can cause eye irritation. Symptoms include stinging, tearing, redness and swelling of the eyes.

#### Skin:

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.

**Ingestion:**

Ingestion: May cause irritation and burning of the lips, mouth and throat,

**5 FIRE FIGHTING MEASURES**

**Suitable and Unsuitable extinguishing media:**

In case of fire: Use water, foam, chemical extinguisher or carbon dioxide.

**Specific hazards arising from the chemical:**

Flammable or Combustible Liquid! This material releases vapors when heated above ambient temperatures. Vapors can cause a flash fire. Vapors can travel to a source of ignition and flashback. a vapor and air mixture can create an explosion hazard in confined spaces such as sewers. Use only with adequate ventilation. If container is not properly cooled, it can rupture in the heat of a fire.

**Special protective equipment and precautions for firefighter**

Firefighters must use full bunker gear including NIOSH approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight fire from a maximum distance or use unmanned hose holders or monitor nozzles. Cover pooling liquid with foam. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines. Be aware that burning liquid will float on water. Notify appropriate authorities of potential fire and explosion hazard if liquid enters sewers or waterways.

**6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment, & Emergency Proc**

For large spills, secure the area and control access. Dike far ahead of liquid spill to ensure complete collection. Water mist may be used to reduce or disperse vapors;but,it may not prevent ignition in closed spaces. This material will float on water and its run-off may create an explosion or fire hazard. Verify responders are properly HAZWOPER trained and wearing appropriate respiratory equipment and fire resistant protective clothing during clean up operations. In an urban area, clean up as soon as possible; in natural environments, cleanup on advice from specialists. Pick up free liquid for recycle and/or disposal if it can be accomplished safely with explosion-proof equipment. Collect any excess material with absorbant pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal. Comply with all laws and regulations.

**Methods and Materials for containment & cleaning up:**

Flammable or Combustible Liquid! Release causes an immediate for or explosion hazard. Evacuate all non-essential personnel from immediate area and establish a "regulated zone" with site control and security. A vapor suppressing foam may be used to reduce vapors. Eliminate all ignition sources. All equipment used when handling this material must be grounded. Stop leak if it can be done without risk. Do not touch or walk through spilled material. Remove spillage immediately from hard,smooth walking areas. Prevent its entry into waterways, sewers, basements, or confined areas. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to appropriate waste containers. Use clean, non-sparking tools to collect absorbed material.

**7 HANDLING AND STORAGE**

**Precautions for safe handling:**

A spill or leak can cause an immediate fire or explosion hazard . Keep containers closed and do not handle or store near heat, sparks, or any other potential ignition sources. Avoid contact with oxidizing agents. DO NOT breath vapor. Use only with adequate ventilation and personal protection. Never siphon by mouth. Aviod contact with eyes, skin, and clothing. Prevent contact with food and tobacco products. DO NOT take internally.

When performing repairs and maintenance on contaminated equipment, keep unnecessary persons away from the area. Eliminate all potential ignition sources. Drain and purge equipment as necessary, to remove material residues. Follow proper entry procedures, including compliance with 29 CFR 1910.146 prior to entering confined spaces such as tanks or pits. Use gloves constructed of impervious materials and protective clothing if direct contact is anticipated. Use appropriate respiratory protection when concentrations exceed any established occupational exposure level (see Section 8). Promptly remove contaminated clothing. Wash exposed skin thoroughly with soap and water after handling.

Non-equilibrium conditions may increase the fire hazard associated with this product. A static electrical charge can accumulate when this product is flowing through pipes, nozzles or filters when it is agitated. A static spark can ignite accumulated vapors particularly during dry weather conditions. Always bond receiving containers to the fill pipe before and during loading. Always confirm that receiving container is properly grounded. Bonding and grounding alone may be inadequate to eliminate fire and explosion hazards associated with electrostatic charges.

Carefully review operations that may increase risk associated with static electricity such as tank and container filling, tank cleansing, sampling, gauging, loading, filtering, mixing, agitation, etc. In addition to bonding and grounding, efforts to mitigate the hazards of an electrostatic discharge may include, but are not limited to ventilation, inerting and/or reduction of transfer velocities. Dissipation of electrostatic charges may be improved with the use of conductivity additives when used with other mitigation efforts including bonding and grounding. Always keep nozzle in contact with the container throughout the loading process.

Do NOT fill any portable container in or on a vehicle. Do NOT use compressed air for filling, discharging or other handling operations. Product container is NOT designed for elevated pressure. DO NOT pressurize, cut, weld, braze solder, drill, or grind containers. Do NOT expose product containers to flames, sparks, heat or other potential ignition sources. Empty containers may contain residues which can ignite with explosive force. Observe label precautions.

**Conditions for safe storage,  
inc any incompatibilities:**

Store in a well ventilated place. Keep cool .

Keep container tightly closed.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std.	TWA-8hrs	STEL - 15 min.
Ethylene Glycol Butyl Ether	ACGIH	20 ppm (skin)	
Butyl Acetate	ACGIH	150 ppm	200 ppm

ACGIH - American Control of Governmental Hygenists  
OSHA - Occupational Safety and Health Administration

**Ventilation:** Use local exhaust to keep personal exposures below the OSHA Permissible Exposure Limit (s) (PEL) or the ACGIH threshold Limit Values (TLV)Time Weight Average (TWA).

**Respiratory Protection:** A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI 788.2 or applicable federal requirements must be followed whenever work place conditions warrant respirator use. NIOSH's Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

**Other:** Safety shower in work area.

**Protective Gloves:** Butyl or neoprene gloves

**Eye Protection:** Wear chemical safety goggles.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White mobile liquid.
<b>Odor:</b>	fruity odor
<b>Odor Threshold:</b>	N/A
<b>PH:</b>	N/A
<b>Melting Point/Freezing Point:</b>	N/A
<b>Initial Boiling Point and Boiling Range:</b>	N/A
<b>Flash Point:</b>	>80 °F estimate
<b>Evaporation Rate:</b>	N/A
<b>Flammability (solid, gas):</b>	N/A
<b>Upper/Lower flammability or explosive limits:</b>	N/A
<b>Vapor Pressure:</b>	N/A
<b>Vapor Density:</b>	>1 (Air=1)
<b>Relative Density:</b>	0.886
<b>Solubility (ies):</b>	~20% in water
<b>Partition Coefficient; n-octanol/water:</b>	N/A
<b>Auto-ignition Temperature:</b>	N/A
<b>Decomposition Temperature:</b>	N/A
<b>Viscosity:</b>	N/A

## 10 STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions
<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid:</b>	Heat, flames and sparks
<b>Incompatible Materials:</b>	Oxygen, halogens, Chlorine, Hydrogen peroxide
<b>Hazardous Decomposition Products:</b>	Carbon Dioxide, Carbon Monoxide

## 11 TOXICOLOGICAL INFORMATION

<b>Oral Administration:</b>	Butyl Acetate-LD50-(Rat)-14,130 mg/kg
<b>Dermal administration:</b>	Ethylene Glycol monobutyl Ether-LD50(Rabbit)-0.45 ml/kg 24 h
<b>Dermal administration:</b>	Butyl Acetate-LD50(Rabbit)->16 ml/kg
<b>Long term exposure:</b>	Ethylene Glycol Monobutyl Ether-In animals, effects have been reported on the following organs: blood(hemolysis) and secondary effects on the kidney and liver. HUMAN red blood cells have been shown to be significantly less sensitive than those of rodents and rabbits.
<b>Cancer Hazard:</b>	Ethylene Glycol Monobutyl Ether-Group 3-Not classifiable as to carcinogenicity to humans. ACGIH:Group A3-Confirmed animal carcinogen with unknown relevance to humans.
<b>Routes of Exposure</b>	Eyes, Skin, Inhalation, Ingestion

## 12 ECOLOGICAL INFORMATION

<b>Daphnia Magna,</b>	Butyl Acetate-LC50-44 mg/L 48 h
<b>Persistence and Degradability:</b>	Will biodegrade readily
<b>Bioaccumulation potential:</b>	Not known
<b>Soil/Sediment Result:</b>	No data available

### 13 DISPOSAL CONSIDERATION

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

### 14 TRANSPORT INFORMATION

UN Number: 1263  
UN Proper Shipping Name: PAINT RELATED MATERIAL,  
Transport Hazard Class (es): 3  
Packing Group: II  
ERG: 128

### 15 REGULATORY INFORMATION

HMIS: Health: 1 Flammability: 3 Reactivity: 0

Cercla Butyl Acetate-RQ=5000 lbs

Sara Hazard Fire, Acute Health, Chronic Health Hazards  
Classification

### 16 OTHER INFORMATION

**Disclaimer:** The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship.