

## Material Safety Data Sheet

Revision Issued: 3/10/2008    Supercedes: 1/31/2006    First Issued: 6/23/1999

### Section I - Chemical Product And Company Identification

**Product Name: Desert Brand Retarder**

CAS Number: 67-64-1

HBCC MSDS No. CD05950



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### Section II - Composition/Information On Ingredients

Chemical Name	CAS Number	Exposure Limits (TWAs) in Air		
		ACGIH TLV	OSHA PEL	STEL
Acetone	67-64-1	750 ppm	750 ppm	1000 ppm
p-Chlorobenzotrifluoride	98-56-6	N/E	N/E	N/E

### Section III - Hazard Identification

**Routes of Exposure:** Inhalation, skin absorption, ingestion, or eye contact.

**Summary of Acute Health Hazards**

**Ingestion:** Acetone has a low order of toxicity but is very irritating to mucous membranes. Ingestion of a toxic dose can cause gastroenteric irritation, narcosis and injury to the kidneys and liver. Aspiration into lungs can produce severe lung damage and is a medical emergency. Other symptoms are expected to parallel inhalation.

**Inhalation:** The vapor is irritating to mucous membranes. Vapor concentration of 2,500-3,000 ppm causes minor irritation of eyes, nose and throat. Inhalation of higher concentration may cause headache, nausea, confusion, drowsiness, convulsions and coma. Higher concentrations can produce central nervous system depression, narcosis, and unconsciousness.

**Skin:** Prolonged exposure to the vapor irritates the skin. Repeated and prolonged contact of the liquid with skin can cause dryness and arrhythmia (inflammation).

**Eyes:** Eye contact with acetone is irritating and may be damaging.

**Summary of Chronic Health Hazards:** N/A

**Effects of Overexposure:** Acts as an anesthetic in very high concentrations. Headache, nausea, dizziness, and narcosis can result from excessive exposure to vapors. Causes severe eye irritation, experienced as discomfort or pain, excess blinking and tear production, with marked excess redness and swelling of the conjunctiva. Corneal injury may occur. Prolonged contact of the liquid with the skin

can have a defatting action and may result in dermatitis. Absorption through intact skin is not expected to cause systemic injury; however, possible skin absorption should be considered in meeting TLV requirements.

**Medical Conditions Generally Aggravated by Exposure:** Use of alcoholic beverages enhances toxic effects.

**Note to Physicians:** Aspirated acetone may cause severe lung damage and present a significant hazard. Stomach contents should be evacuated quickly in a manner which avoids aspiration. Otherwise, treatment of overexposure is directed at the control of symptoms and the clinical condition of the patient. No specific antidote is known.

#### Section IV - First Aid Measures

**Ingestion:** Do not make an unconscious person vomit. If conscious give 2 glasses of water to dilute. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY. No specific antidote known. If vomiting occurs, keep head below hips to prevent aspiration into the lungs.

**Inhalation:** Remove to fresh air. Administer artificial respiration if breathing is irregular or stopped. If breathing is difficult, oxygen may be given by qualified personnel. GET MEDICAL ATTENTION.

**Skin:** Wash with large quantities of water and soap or a mild detergent. Remove contaminated clothing. Seek medical attention if irritation from contact persists.

**Eyes:** Flush eyes with water immediately for at least 15 minutes, lifting the upper and lower lids. GET MEDICAL ATTENTION, preferably from an ophthalmologist.

#### Section V - Fire Fighting Measures

**Flash Point:** 0°F

**Autoignition Temperature:** 869°F

**Lower Explosive Limit:** 0.9

**Upper Explosive Limit:** 12.8

**Unusual Fire and Explosion Hazards:** Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point. Vapors from this material may settle in low or confined areas or travel a long distance to an ignition source and flash back explosively. This material may produce a floating fire hazard.

**Extinguishing Media:** Small fire: Use carbon dioxide or dry chemical. Large fire: Use polar solvent (alcohol) type foam. The normal firefighting foams that are suitable for gasoline or hydrocarbon fires will break down and will not extinguish acetone fires. Water spray will reduce the intensity of flames. Acetone/water solutions have flash points when the acetone concentration is greater than 8% (by weight). The fire point, which is the percent by weight when a solution sustains a flame, is higher than that.

**Special Firefighting Procedures:** The use of self-contained breathing apparatus is recommended for fire fighters. Use water spray to cool fire-exposed containers and to dilute and reduce fire intensity. Use remote spray monitors or fight fire from behind shields. Use water spray to disperse vapors; re-ignition is possible.

#### Section VI - Accidental Release Measures

Provide maximum explosion-proof ventilation. Eliminate all sources of ignition. Flush spilled material into suitable retaining areas or containers with large quantities of water. Small amounts of spilled material may be absorbed into an appropriate absorbent.

## Section VII - Handling and Storage

**Handling and Storing Precautions:** Store in a cool, clean, well-ventilated fireproof storage room or cabined to meet OSHA requirements. Sprinkler fire protection is needed in areas of storage, handling and use. Acetone must be stored and handled away from heat. Electrically interconnect and ground containers for all transfers of acetone to avoid fires from static sparks. Avoid breathing vapor.

**Other Precautions:** Transfer hazard: Vapors of this product may be ignited by static sparks. Use proper bonding and grounding during liquid transfer as described in National Fire Protection Association document NFPA 77.

## Section VIII - Exposure Controls/Personal Protection

**Respiratory Protection:** Use only NIOSH- or MSHA -approved respirators. For a non-routine or emergency exposure above the TLV, use a full face piece gas mask with organic vapor canister, or a air-supplied respirator in accordance with conditions. Use self-contained breathing apparatus in high vapor concentrations.

### **Respirator Selection**

5,000 ppm: GMOVc\* 20,000 ppm: GMOVfb/SAF/SCBAF\* Escape: GMOV/SCBA\* \*see below

**Ventilation:** General mechanical ventilation may be sufficient to keep product vapor concentrations within specified time-weighted TLV ranges. Supplemental local exhaust may be required to maintain safe vapor concentrations.

**Protective Clothing:** Wear appropriate clothing to prevent repeated or prolonged skin contact. The use of impermeable gloves, aprons, boots, and lab coat are advised to prevent skin irritation.

**Eye Protection:** Safety glasses, chemical goggles, and/or face shields are recommended to safeguard against potential eye contact, irritation, or injury.

**Other Protective Clothing or Equipment:** Eye washes and safety showers should be readily available in the work areas.

**Work/Hygienic Practices:** Employees should wash promptly when skin is wet.

## Section IX - Physical and Chemical Properties

**Physical State:** Liquid

**pH:** N/A

**Melting Point/Range:** N/A

**Boiling Point/Range:** 133°F (56.5°C to 139°C)

**Appearance/Color/Odor:** Clear, colorless liquid with a sweet odor

**Solubility in Water:** Partially soluble

**Vapor Pressure (mmHg):** 5.3 to 181 @ 68°F (20°C)

**Specific Gravity (Water=1):** 1.06-1.07@ 20°C

**VOC:** Zero g/L

**Vapor Density (Air=1):** 2.0 to 6.0

**% Volatiles:** 100%

**How to detect this compound :** N/A

**Freezing Point:** -36°C to -96.54°C

**Evaporation Rate (Butyl Acetate=1):** 0.9 to 7.7

## Section X - Stability and Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** Heat - acetone is a highly flammable material.

**Materials to Avoid:** Solvent is incompatible with strong oxidizing agents and strong acids or bases. Concentrated nitric and sulfuric acid mixtures, oxidizing materials, alkalis, acids, potassium t-butoxide.

**Hazardous Decomposition Products:** Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.

**Section XI - Toxicological Information**

N/A

**Section XII - Ecological Information**

N/A

**Section XIII - Disposal Considerations**

Dispose of product in accordance with applicable local, county, state and federal regulations

**Section XIV - Transport Information**

**DOT Proper Shipping Name:** Paint Related Materials

**DOT Hazard Class/ I.D. No.:** 3,UN1263, II

**Section XV - Regulatory Information**

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) Hazardous Substance:** Acetone, CAS # 67-64-1

5000 Lbs. (2270 Kilograms) (753.01 Gals.) Reportable Quantity (RQ)

**RCRA (Resource Conservation & Recovery Act) Hazardous Waste Code:**

Acetone, CAS # 67-64-1, U002

**Medical Surveillance Suggested:** Preplacement examinations should evaluate skin and respiratory conditions. Acetone can be detected in the blood, urine, and expired air and has been used as an index of exposure.

**NFPA (National Fire Protection Association) Rating:**

Health - 1; Flammability - 4; Instability - 0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

**Carcinogenicity Lists:**

**National Toxicology Program (NTP):** No

**International Agency for Research on Cancer (IARC) Monograph:** No

**Occupational Safety & Health Administration (OSHA) Regulated:** Yes

**Section XVI - Other Information**

**Synonyms/Common Names:** N/A

**Chemical Family/Type:** Mixture

**Section(s) changed since last revision:** All Sections (new formula)

**IMPORTANT!** Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise

appropriate precautions for protection of employees and others.