

MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Activator

Product No.: ST02

Manufacturer Name:

Parker Seal
P.O. Box 11751
Lexington, KY 40512
859-269-2351

Emergency Telephone:

Domestic North America 800-424-9300
International, Call 703-527-3887

Intended Use: Activator / Accelerator

2 HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Liquid

Color: Yellow-amber

Odor: Mild

DANGER!

Causes severe eye irritation. Causes skin irritation. May cause allergic skin reaction.
Extremely flammable liquid and vapor - vapor may cause flash fire.

Potential Health Effects

Inhalation: In high concentrations, vapors may be irritating to the respiratory system.

Eye Contact: Causes severe eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.

Skin Contact: Causes skin irritation. May cause allergic skin reaction. Prolonged skin contact may cause dermatitis.

Ingestion: May be harmful if swallowed.

Chronic Health Effects: Danger of adverse health effects by prolonged exposure. Possible reproductive hazard that may cause adverse reproductive effects based on animal data. May cause allergic skin reaction. Can cause nervous system damage. May cause damage to the liver and kidneys.

Target Organ(s): | Skin | Eye | Reproductive system | Kidney | Liver | Nervous system |

Potential Physical / Chemical Effects: Extremely flammable.

OSHA Regulatory Status: This product is hazardous according to OSHA 29CFR 1910.1200.

Environment:

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration*
†Acetone	67-64-1	40 - 60%

†Hexane	110-54-3	40 - 60%
†Mercaptobenzothiazole	149-30-4	1 - 3%
†N,N-Dialcanol Toluidine	3077-12-1	1 - 3%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

† This chemical is hazardous according to OSHA/WHMIS criteria.

4 FIRST AID MEASURES

Inhalation: Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.

Skin Contact: Remove contaminated clothes and rinse skin thoroughly with water. If skin irritation or an allergic skin reaction develops, get medical attention.

Ingestion: Rinse mouth thoroughly. Get medical attention.

5 FIRE-FIGHTING MEASURES

Extinguishing Media: Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable Extinguishing Media: Do not use water as an extinguisher.

Special Fire Fighting Procedures: Containers close to fire should be removed immediately or cooled with water.

Unusual Fire & Explosion Hazards: Vapors are heavier than air and may travel along the floor and in the bottom of containers. Vapors may be ignited by a spark, a hot surface or an ember. Fire or excessive heat may result in rupture of container due to release of significant amounts of gases. During fire, gases hazardous to health may be formed.

Hazardous Combustion Products: Carbon Oxides, Nitrogen Oxides, Sulfur Oxides

Protective Measures: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

Spill Cleanup Methods: Absorb spillage with non-combustible, absorbent material. Remove sources of ignition. Collect and dispose of spillage as indicated in section 13 of the MSDS.

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground.

7 HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Local exhaust is recommended. Avoid inhalation of vapors and contact with skin and eyes. Wear protective gloves and appropriate clothing to prevent skin contact. Wear eye/face protection. Wash at the end of each work shift and before eating, smoking and using the toilet. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.

Storage:

away from sources of ignition - no smoking. Keep container closed when not in use. Ground container and transfer equipment to eliminate static electric sparks. Store away from incompatible materials.

8	EXPOSURE CONTROLS / PERSONAL PROTECTION
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Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
Acetone	US. ACGIH TLV	TWA	500 ppm	
Acetone	US. ACGIH TLV	STEL	750 ppm	
Acetone	US. NIOSH Guide	IDLH	2500 ppm	
Acetone	US. OSHA Z-1 PEL	TWA	1000 ppm 2400 mg/m ³	
Hexane	US. ACGIH TLV	TWA	50 ppm	Skin
Hexane	US. NIOSH Guide	IDLH	1100 ppm	
Hexane	US. OSHA Z-1 PEL	TWA	500 ppm 1800 mg/m ³	
Mercaptobenzothiazole	US. AIHA WEEL	TWA	5 mg/m ³	Skin

Consult Canadian Provincial Regulations and/or Mexican Regulations on exposure limits, if applicable.

Engineering Controls: Provide adequate ventilation. Eye wash facilities and emergency shower must be available when handling this product. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Use explosion-proof ventilation equipment.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Eye Protection: Wear approved safety goggles.

Hand Protection: Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Skin Protection: Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

Environmental Exposure Controls: Environmental manager must be informed of all major spillages.

9	PHYSICAL AND CHEMICAL PROPERTIES
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Color: Yellow-amber

Odor: Characteristic

Odor Threshold: No data available.

Physical State: Liquid

pH: Not applicable

Melting Point: No data available.

Freezing Point: No data available.

Boiling Point: 56°C (133°F)

Flash Point: -8°C (18°F)

Evaporation Rate: No data available.

Flammability Limit - Upper (%): No data available.

Flammability Limit - Lower (%): No data available.

Vapor Pressure:

Vapor Density (Air=1): No data available.
Specific Gravity: 0.8 @ 25°C (77°F)
Solubility in Water: Miscible with water.
Solubility (Other): No data available.
Partition Coefficient (n-Octanol/water): No data available.
Autoignition Temperature: No data available.
Decomposition Temperature: No data available.
Volatile Organic Compounds (VOC): 8.306 %w
Viscosity: Not applicable.

10	STABILITY AND REACTIVITY
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Stability: This product is stable under expected conditions of use.

Conditions to Avoid: Excessive heat. Freezing. Open flame. Ignition sources.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products:

At Elevated Temperatures:	Toxic gases
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Possibility of Hazardous Reactions: Will not occur.

11	TOXICOLOGICAL INFORMATION
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Specified Substance(s)

Acute Toxicity:

Chemical Name	Test Results
Acetone	Inhalation LC50 (8 hour(s), Rat): 50100 mg/m ³
Acetone	Oral LD50 (Rat): 5800 mg/kg

Listed Carcinogens:

Chemical Name	IARC	NTP	OSHA	ACGIH
Acetone	Not Listed	Not Listed	Not Listed	A4

IARC: 1 = Carcinogenic to Humans; 2A = Probably Carcinogenic to Humans; 2B = Possibly Carcinogenic to Humans; 3 = Not classifiable as to carcinogenicity to humans; 4 = Probably not carcinogenic to humans; Not listed = Not evaluated by IARC.

ACGIH: A1 = Confirmed Human Carcinogen; A2 = Suspected Human Carcinogen; A3 = Confirmed Animal Carcinogen; A4 = Not classifiable as a human carcinogen; A5 = Not suspected to be a human carcinogen; Not listed = Not evaluated by ACGIH.

Product Information

Acute Toxicity:

Test Results

No test data available for the product.

Other Acute: Causes severe eye irritation. Causes skin irritation. May cause allergic skin reaction.

Chronic Toxicity: Possible reproductive hazard that may cause adverse reproductive effects based on animal data. May cause allergic skin reaction. Can cause nervous system damage. May cause damage to the liver and kidneys.

12	ECOLOGICAL INFORMATION
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Ecotoxicity: The product contains a substance which is toxic to aquatic organisms.

Chemical Name	Test
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Acetone	LC50 (96 hour(s), Rainbow trout): 5540 mg/l
Acetone	LC50 (96 hour(s), Bluegill Sunfish): 8300 mg/l

Mobility: The product is miscible with water. May spread in water systems.

Persistence and Degradability: The degradability of the product has not been stated.

Bioaccumulation Potential: No data available on bioaccumulation.

13	DISPOSAL CONSIDERATIONS
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General Information: Dispose of waste and residues in accordance with local authority requirements.

Disposal Methods: Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Confirm disposal procedures with environmental engineer and local regulations.

RCRA Information: D001

14	TRANSPORT INFORMATION
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DOT

UN No.: UN1950

Proper Shipping Name: Aerosols, flammable, n.o.s.

Class: 2.1

Packing Group: (N/A)

Label(s): 2.1

TDG

UN No.: UN1950

Proper Shipping Name: Aerosols

Class: 2.2

Packing Group: (N/A)

IATA

UN No.: UN1950

Proper Shipping Name: Aerosols, flammable

Class: 2.1

Packing Group: (N/A)

Label(s): 2.1

IMDG

UN No.: UN1950

Proper Shipping Name: Aerosols

Class: 2.1

Packing Group: (N/A)

EmS No.: F-D, S-U

15	REGULATORY INFORMATION
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Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

B2, D2A, D2B

Mexican Dangerous Statement: This product is dangerous according to Mexican regulations.

Inventory Status

This product or all components are listed or exempt from listing on the following inventory: DSL, TSCA

US Regulations

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Name	RO
Hexane	5000 lbs
Acetone	5000 lbs

SARA Title III

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Not regulated.

Section 311/312 (40 CFR 370):

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372):

Chemical Name	CAS-No.	Reporting threshold for other users	Reporting threshold for manufacturing and processing
Hexane	110-54-3	10000 lbs	25000 lbs
Mercaptobenzothiazole	149-30-4	10000 lbs	25000 lbs

For reporting purposes: the De Minimis Concentration for a toxic chemical in a mixture is 0.1% for carcinogens as defined in 29 CFR 1910.1200(d) (4) or 1% for others.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Not regulated.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): Not regulated.

Drug Enforcement Act:

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)):

Acetone

TSCA

TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated.

TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E): Not regulated.

TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Not regulated.

Massachusetts Right-To-Know List:

Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)): Not regulated.

Minnesota Hazardous Substances List:

New Jersey Right-To-Know List: Acetone; Hexane

Pennsylvania Right-To-Know List: Hexane

Rhode Island Right-To-Know List: Acetone; Hexane

16	OTHER INFORMATION
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HAZARD RATINGS

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	2	4	0	--

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

NFPA Label colored diamond code: Blue - Health; Red - Flammability; Yellow - Instability; White - Special Hazards

	Health Hazard	Flammability	Physical Hazard	Personal Protection
HMIS	2*	4	0	C

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe *- Chronic Health Effect

Personal Protection codes: C - Safety Glasses, Gloves, Apron

HMIS Label colored bar code: Blue - Health; Red - Flammability; Orange - Physical Hazards; White - Special

Issue Date: 6-Mar-2008

Supersedes Date: 28-Feb-2008

SDS No.: ST02

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information