

MATERIAL SAFETY DATA SHEET

Issuing Date 7/8/2013 Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name BACK UP 3 TITRANT

Product Code(s) 7116

Company LaMotte Company, Inc.

802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620

USA

Emergency telephone number 24 Hour Emergency Number (CHEM-TEL):

USA, Canada, Puerto Rico 1-800-255-3924

Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

May be harmful if swallowed May cause skin irritation

Appearance Clear, colorless Physical state liquid Odor None

OSHA Regulatory Status

This material is not considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Potential health effects

Principle Routes of Exposure Skin Contact, and, Ingestion.

Acute toxicity

EYES Not an expected route of exposure. May cause slight irritation.

skin May cause irritation.

InhalationNot an expected route of exposure.IngestionMay be harmful if swallowed.

Chronic effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Sulfuric acid, monoethenyl ester, potassium salt,	26182-60-5	<0.1
homopolymer		
Chloroform	67-66-3	<0.1
Water	7732-18-5	to 100%

A small amount of Chloroform has been added to this solution as a preserative.

4. FIRST AID MEASURES

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Eye contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Wash skin with soap and

water. Consult a physician if necessary.

Inhalation Not expected to require first aid measures.

Ingestion Drink 1 or 2 glasses of water. Consult a physician if necessary.

Protection of First-aidersUse personal protective equipment. See Section 8 for more detail. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device.

5. FIRE-FIGHTING MEASURES

Flammable properties Not a fire hazard.

Flash point Not Applicable

Suitable extinguishing media Water spray, dry chemical, carbon dioxide (CO₂), or foam.

NFPA Health hazard 0 flammability 0 stability 0 Physical and Chemical

HMIS Health hazard 1 flammability 0 stability 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Refer to Section 8. Use personal protective equipment.

Methods for containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste

container.

Methods for cleaning up If local regulations permit, rinse to drain with excess water. After cleaning, flush away traces

with water.

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin and eyes. Do not ingest. Do not eat, drink, or smoke when using this product.

Storage Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfuric acid, monoethenyl ester, potassium salt, homopolymer 26182-60-5	None known	None known	None known
Chloroform 67-66-3	TWA: 10 ppm	None known	IDLH: 500 ppm STEL: 2 ppm STEL: 9.78 mg/m³
Water 7732-18-5	None known	None known	None known

Hazards -

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Engineering Measures Showers

Eyewash stations Ventilation systems.

Personal protective equipment

Eye/face Protection Safety glasses with side-shields.

Skin and body protection Gloves & Lab Coat.

Respiratory protection Maintain adequate ventilation.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and immediately after handling the product. Do not eat, drink or smoke when using

this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceClear, colorlessOdorNonePhysical stateliquidpH5

Flash point Not Applicable Autoignition temperature Not Applicable

Boiling Point/Range ca. 100°C/212°F

Vapor pressure Essentially the same as water Vapor density Essentially the same as water

10. STABILITY AND REACTIVITY

stability Stable under normal conditions of use and storage.

Incompatible Products Strong oxidizing agents.

Conditions to avoid Incompatible products.

Hazardous decomposition products Carbon oxides (COx). Sulfur oxides (SOx). Potassium Oxides.

Hazardous polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Sulfuric acid, monoethenyl ester, potassium salt, homopolymer	· · · · · · · · · · · · · · · · · · ·		None known	
Chloroform	908 mg/kg (Rat)	3980 mg/kg (Rabbit)	47.7 mg/L (Rat)4 h	
Water	90 mL/kg (Rat)	None known	None known	

Chronic toxicity

Chemical name	ACGIH	IARC	NTP	OSHA
Sulfuric acid, monoethenyl ester, potassium salt, homopolymer	None known	None known	None known	None known
Chloroform	A3	Group 2B	Reasonably Anticipated	X
Water	None known	None known	None known	None known

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

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NTP: (National Toxicity Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Endocrine Disruptor Information

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information	
Sulfuric acid, monoethenyl ester, potassium salt, homopolymer		None known	None known	
Chloroform None known		None known	None known	
Water	None known	None known	None known	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Toxicity	to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Sulfuric acid, monoethenyl ester, potassium salt, homopolymer	None known		None known	None known	None known
Chloroform	EC50 = 560 mg/L 48 h		LC50= 18 mg/L Lepomis macrochirus 96 h LC50= 18 mg/L Oncorhynchus mykiss 96 h LC50= 300 mg/L Poecilia reticulata 96 h LC50= 70.7 mg/L Pimephales promelas 96 h	EC50 = 520 mg/L 5 min EC50 = 670 mg/L 15 min EC50 = 670 mg/L 30 min	EC50 = 28.9 mg/L 48 h
Water	None I	known	None known	None known	None known
Chemical name	Chemical name Sulfuric acid, monoethenyl ester, potassium salt, homopolymer		Log Pow		
			None known		
Chloroform		= 2 25 °C			
Water		None known			

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose according to federal, state, and local regulations.

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sulfuric acid, monoethenyl ester, potassium salt, homopolymer - 26182-60-5	None known	None known	None known	None known
Chloroform - 67-66-3	Category I - Volatiles	None known	Toxic waste; (waste number F025); Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated	catalyst waste from
Water - 7732-18-5	None known	None known	None known	None known

14. TRANSPORT INFORMATION

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DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS	AICS
Sulfuric acid, monoethenyl ester, potassium salt, homopolymer 26182-60-5 (<0.1)	XU	DSL	EINECS/ELIN CS	ENCS	Х	KECL	PICCS	AICS
Chloroform 67-66-3 (<0.1)	Present	X	X	2-37	Х	KE-34076	Х	Х
Water 7732-18-5 (to 100%)	Present	Х	Х	ENCS	Х	KE-35400	Х	X

U.S. Federal Regulations

SARA 313

(Contains < 0.1% Chloroform which is less than the threshold value of 0.1%) Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Sulfuric acid, monoethenyl ester, potassium salt, homopolymer	26182-60-5	<0.1	None known
Chloroform	67-66-3	<0.1	0.1
Water	7732-18-5	to 100%	None known

SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

Clean Water Act

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sulfuric acid, monoethenyl ester, potassium salt, homopolymer 26182-60-5 (<0.1)	None known	None known	None known	None known
Chloroform 67-66-3 (<0.1)	10 lb	X	Х	Х
Water 7732-18-5 (to 100%)	None known	None known	None known	None known

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

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Chemical name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Sulfuric acid, monoethenyl ester, potassium salt, homopolymer	26182-60-5	<0.1	None known	None known	None known	None known
Chloroform	67-66-3	<0.1	Present	Group I	None known	None known

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Water	7732-18-5	to 100%	None known	None known	None known	None known

CERCLA

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Sulfuric acid, monoethenyl ester, potassium salt,	None known	None known
homopolymer		
Chloroform	10 lb	10 lb
Water	None known	None known

U.S. State Regulations

California Proposition 65

WARNING! This product contains a chemical know to the State of California to cause cancer and birth defects or other reproductive harm

Chemical name	CAS-No	California Prop. 65
Sulfuric acid, monoethenyl ester, potassium salt,	26182-60-5	None known
homopolymer		
Chloroform	67-66-3	Carcinogen
		Developmental
Water	7732-18-5	None known

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sulfuric acid, monoethenyl ester, potassium salt, homopolymer	None known	None known	None known	None known	None known
Chloroform	Χ	X	X	X	Х
Water	None known	None known	None known	None known	None known

International Regulations

Mexico - Grade

Chemical name	Carcinogen Status	Exposure Limits
Sulfuric acid, monoethenyl ester, potassium salt, homopolymer	None known	None known
Chloroform	A3	Mexico: TWA= 10 ppm Mexico: TWA= 50 mg/m³
Water	None known	None known

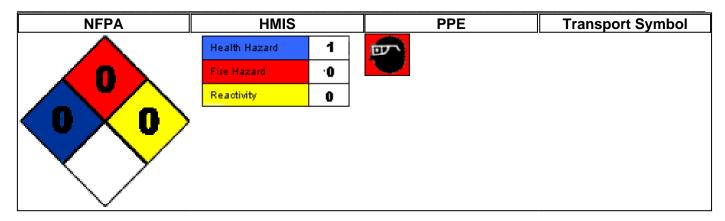
CANADA

NOT WHMIS CONTROLLED

Component	WHMIS Hazard Class
Sulfuric acid, monoethenyl ester, potassium salt, homopolymer	Not Determined
26182-60-5 (<0.1)	
Chloroform	0.1 %
67-66-3 (<0.1)	D1B D2A D2B
Water	Uncontrolled product according to WHMIS classification criteria
7732-18-5 (to 100%)	

Chemical name	NPRI
Chloroform	X

16. OTHER INFORMATION



Prepared by Regulatory Affairs Department

Issuing Date 7/8/2013

Revision date -

Revision note Update to Format.

Disclaimer

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End of MSDS