SAFETY DATA SHEET

Preparation Date: 6/17/2019 **Revision date** 6/17/2019 **Revision Number:** G1

1. IDENTIFICATION

Product identifier

Product code: B1155
Product Name: BROMOFORM, STABILIZED, PURIFIED

Other means of identification

Synonyms: Bromoforme (French)
Methenyl tribromide
Methyl tribromide
Tribromomethane
Bromoform
Bromoforme (French)
Methenyl tribromide
Methyl tribromide
Tribromomethane
Bromoformo (Spanish)

CAS #: 75-25-2
RTECS # PB5600000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Chemical intermediate. In inorganic synthesis.
Uses advised against No information available

Supplier:

Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com
Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Tom Tyner (USA - West Coast)
Contact Person: Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Gases)	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

Specific target organ toxicity (single exposure)	Category 3

Label elements

Danger

Hazard statements
Harmful if swallowed
Toxic if inhaled
Causes skin irritation
Causes serious eye irritation
May cause drowsiness or dizziness

Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Toxic to aquatic life with long lasting effects
Lachrymator

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
IF ON SKIN: Wash with plenty of water
If skin irritation occurs: Get medical attention
Take off contaminated clothing and wash it before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell
Rinse mouth

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Bromoform	75-25-2	>=96
2-Methyl-2-butene	513-35-9	0.006

4. FIRST AID MEASURES

First aid measures

General Advice: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation 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. Immediate medical attention is required.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Toxic if swallowed. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms Severe skin and eye irritation or burns

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products bromuro de hidrógeno

Hazardous combustion products No information available.

Specific hazards No information available.

Special Protective Actions for Firefighters

Specific Methods: No information available

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

Methods for cleaning up Absorb spill with inert material (e.g. vermiculite, dry sand or earth). Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice:
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Protect from light. Sensitive to light. Store in light-resistant containers. Store away from incompatible materials.

Incompatible Materials:
Oxidizing agents
Bases
Caustics
Sodium
Potassium
Magnesium sulfate
Lithium
Sodium-Potassium alloy
Powdered metals
Aluminum

Zinc
Calcium salts

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	**OSHA**	**NIOSH**	**ACGIH**	**AIHA WEEL**
Bromoform	75-25-2	0.5 ppm TWA 5 mg/m³ TWA	0.5 ppm TWA 5 mg/m³ TWA	0.5 ppm TWA	None
2-Methyl-2-butene	513-35-9	None	None	None	None

Canada

Component	CAS No	**Canada - Alberta**	**Canada - British Columbia**	**Canada - Ontario**	**Canada - Quebec**
Bromoform	75-25-2	0.5 ppm TWA 5.2 mg/m³ TWA	0.5 ppm TWA	None	None
2-Methyl-2-butene	513-35-9	None	None	None	None

Australia and Mexico

Component	CAS No	**Australia**	**Mexico**
Bromoform	75-25-2	0.5 ppm TWA 5.2 mg/m³ TWA	0.5 ppm TWA
2-Methyl-2-butene	513-35-9	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles

Skin and body protection: Long sleeved clothing
Chemical resistant apron
Gloves

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:
Liquid

Appearance:
Viscous.

Color:
Colorless. Light yellow.

Odor:
Chloroform-like.

Taste
Sweetish.

Formula
CHBr3

Molecular/Formula weight (g/mole):
252.77

Flammability (solid, gas)
no data available

Flashpoint (°C/°F):
No information available

Flash Point Tested according to:
Not applicable

Autoignition Temperature (°C/°F):
No information available

Lower Explosion Limit (%):
No information available

Upper Explosion Limit (%):
No information available

Melting point/range(°C/°F):
8.3-8.69 °C/46-47.6 °F

Decomposition temperature(°C/°F):
No information available

Boiling point/range(°C/°F):
149.1°C/300.38 °F

Bulk density:
No information available

Density (g/cm3):
No information available

Specific gravity:
2.6-2.9

pH
No information available

Vapor pressure @ 20°C (kPa):
0.67

Evaporation rate:
No information available

Vapor density:
8.7

VOC content (g/L):
No information available

Odor threshold (ppm):
0.19-15

Partition coefficient (n-octanol/water):
log Kow = 2.40

Viscosity:
No information available

Miscibility:
Miscible with Ethanol
Miscible with Ether
Miscible with Acetone

Solubility:
Soluble in Benzene
Soluble in Chloroform
Slightly soluble in water
Solubility in Water: 0.3 g/100 ml @ 20 °C
Solubility in Water: 0.1 g/100 g @ 20 °C

10. STABILITY AND REACTIVITY

Reactivity
No information available

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Exposure to light. It may discolor on exposure to light.

Incompatible Materials:
Oxidizing agents
Bases
Caustics
Sodium
Potassium
Magnesium sulfate
Lithium
Sodium-Potassium alloy
Powdered metals

Aluminum
Zinc
Calcium salts

Hazardous decomposition products: Carbon monoxide. Carbon dioxide. Hydrogen Bromide. When heated to decomposition it emits highly toxic fumes.

Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Toxicity

Component Information

Bromoform	
CAS No	75-25-2

LD50/oral/rat = 933 mg/kg Oral LD50 Rat
LD50/oral/mouse = 1072 mg/kg
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

2-Methyl-2-butene	
CAS No	513-35-9

LD50/oral/rat = 700 - 2600 mg/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = > 2000 mg/kg Dermal LD50 Rat
LC50/inhalation/rat = >61000 ppm Inhalation LC50 Rat 4 h
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =
Value - Acute Toxicity = No information available

LD50/oral/mouse =
Value - Acute Tox = No information available

LD50/dermal/rabbit
Value - Acute Toxicity = No information available

LD50/dermal/rat
VALUE - Acute Tox = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Irritating to skin. Moderate skin irritation.

Eye Contact: Causes serious eye irritation. Moderately irritating to the eyes. Lachrymator (substance which increases the flow of tears).

Inhalation May cause irritation of respiratory tract. Symptoms may include coughing and shortness of breath. It may cause pulmonary edema. May cause salivation. Inhalation of vapors may cause drowsiness and dizziness. May cause central nervous system effects, central nervous system depression.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May affect respiration (difficult or labored breathing resulting in shortness of breath). May affect behavior/central nervous system (dizziness, drowsiness). May affect behavior/central nervous system (somnolence). May affect behavior/central nervous system (convulsions, tremors, confusion). May affect behavior/central nervous system (fainting, unconsciousness, loss of memory, disorientation). May cause headache. May affect behavior/central nervous system (coma).

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated inhalation may cause bronchitis with coughing, phlegm, and/or shortness of breath. Prolonged or repeated inhalation may affect the liver. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated ingestion may affect the liver, and kidneys. Prolonged or repeated ingestion may affect the blood (changes in serum composition). Prolonged or repeated ingestion may cause loss of appetite. Prolonged or repeated ingestion may cause weight loss. Chronic exposure may cause central nervous system effects. Prolonged skin contact may cause skin irritation.

Sensitization: No information available.

Mutagenic Effects: May affect genetic material
Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects
Mutagenic effects in mammalian somatic cells
Experiments with animal lymphocytes have shown mutagenic effects

Carcinogenic effects: Not classifiable as to its carcinogenicity to humans.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic	Australia - Prohibited Carcinogenic

						Substances	Substances
Bromoform	75-25-2	Group 3 - Not classifiable - Monograph 71 [1999] Monograph 52 [1991]	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	Not listed	Not listed	Not listed	Not listed
2-Methyl-2-butene	513-35-9	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: May cause birth defects (teratogenic effects) based on animal test data

Specific Target Organ Toxicity

STOT - single exposure central nervous system.
STOT - repeated exposure No information available.
Target Organs: Respiratory system. Lungs. Kidneys. Liver. Skin. Central nervous system. Eyes.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Bromoform - 75-25-2
Algae/aquatic plants 63.6-122 mg/l 24 hr. EC50 Pseudokirchneriella (green algae)
46.4-86.4 mg/l 48 hr. EC50 Pseudokirchneriella (green algae
29.9-58.6 mg/l 72 hr. EC50 Pseudokirchneriella (green algae)
38.6-53.8 mg/l 96 hr. EC50 Pseudokirchneriella (green algae)
Fish 18-19 mg/l 96 hr.static LC50 Cyprinodon variegatus (Sheepshead minnow)
7.1 mg/l 96 hr. flowthrough LC50 Cyprinodon variegatus (Sheepshead minnow)
24-36 mg/l 96 hr Lepomis macrochirus (Bluegill)
Crustacea 42-51 mg/l 24 hr LC50 Daphnia magna
2-Methyl-2-butene - 513-35-9
Crustacea EC50: =3mg/L (48h, Daphnia magna)

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soil No information available
Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Bromoform	75-25-2	None	None	None	U225
2-Methyl-2-butene	513-35-9	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No:	UN2515
Proper Shipping Name:	Bromoform
Hazard Class	6.1
Subsidiary Class	No information available
Packing group:	III
Emergency Response Guide Number	159
Marine Pollutant	Marine Pollutant
DOT RQ (lbs):	100 pounds (45.4 Kilograms)
Special Provisions	IB3, T4, TP1
Symbol(s):	[DOT]: (P) - Identifies a material that is a marine pollutant. [DOT]: (R3) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 100 pounds (45.4 Kilograms).
Description:	UN2515, Bromoform, 6.1, III

TDG (Canada)

UN-No:	UN2515
Proper Shipping Name:	Bromoform
Hazard Class	6.1
Subsidiary Risk:	No information available
Packing Group:	III
Marine Pollutant	Marine Pollutant
Description:	UN2515, Bromoform, 6.1, III

ADR

UN Number	UN2515
Proper Shipping Name:	Bromoform
Transport hazard class(es)	6.1
Packing group	III
Subsidiary Risk:	No information available
Description:	UN2515, Bromoform, 6.1, III, ENVIRONMENTALLY HAZARDOUS

IMDG

UN-No:	UN2515
Proper Shipping Name:	Bromoform
Hazard Class:	6.1
Subsidiary Risk:	P
Packing Group:	III
Marine Pollutant	Marine Pollutant
EMS:	F-A
Description	UN2515, Bromoform, 6.1, III, Marine pollutant

RID

UN Number UN2515
Proper Shipping Name: Bromoform
Transport hazard class(es) 6.1
Subsidiary Risk: 6.1
Packing group III
Description: UN2515, Bromoform, 6.1, III, ENVIRONMENTALLY HAZARDOUS

ICAO (air)
UN-No: UN2515
Proper Shipping Name: Bromoform
Hazard Class 6.1
Subsidiary Risk: No information available
Packing Group: III
Description: UN2515, Bromoform, 6.1, III

IATA
UN Number UN2515
Proper Shipping Name: Bromoform
Transport hazard class(es) 6.1
Subsidiary Risk: No information available
Packing group III
Precautionary Statements - Response 6L
Special Provisions No information available
Description: UN2515, Bromoform, 6.1, III

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Bromoform	75-25-2	PresentACTIVE	Present KE-34017	Present	Present (2)-40	Present	Present	Present 200-854-6
2-Methyl-2-butene	513-35-9	PresentACTIVE	Present KE-23587	Present	Present (2)-19	Present	Present	Present 208-156-3

U.S. Regulations

Bromoform
Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 0262
New Jersey (EHS) List: 0262 500 lb TPQ
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard
Pennsylvania RTK - Environmental Hazard List Present
Minnesota - Hazardous Substance List: Present
New York Release Reporting - List of Hazardous Substances:
100 lb RQ
1 lb RQ
Louisana Reportable Quantity List for Pollutants: 100lbfinal RQ
45.4kgfinal RQ
California Directors List of Hazardous Substances: Present
2-Methyl-2-butene
Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 3365
Pennsylvania RTK: Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

⚠WARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	**Carcinogen**	**Developmental Toxicity**	**Male Reproductive Toxicity**	**Female Reproductive Toxicity:**
Bromoform	75-25-2	carcinogen	Not Listed	Not Listed	Not Listed
2-Methyl-2-butene	513-35-9	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	**CERCLA - Hazardous Substances and their Reportable Quantities**	**Section 302 Extremely Hazardous Substances and TPQs**	**Section 302 Extremely Hazardous Substances and RQs**	**Section 313 - Chemical Category**	**Section 313 - Reporting de minimis**
Bromoform	75-25-2	100 lb final RQ 45.4 kg final RQ	None	None	None	1.0 % de minimis concentration
2-Methyl-2-butene	513-35-9	None	None	None	None	None

U.S. TSCA

Component	CAS No	**TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)**	**TSCA 8(d) -Health and Safety Reporting**
Bromoform	75-25-2	Not Applicable	Not Applicable
2-Methyl-2-butene	513-35-9	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information: .

Component	WHMIS 2015 Hazard Classification
Bromoform 75-25-2 (>=96)	Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Skin corrosion/irritation - Category 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Specific target organ toxicity - Repeated exposure - Category 2: H373 May cause damage to organs through prolonged or repeated exposure.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Bromoform	75-25-2	Present	Not Listed
2-Methyl-2-butene	513-35-9	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Bromoform	75-25-2	Not listed
2-Methyl-2-butene	513-35-9	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject

		to Mandatory Reporting
Bromoform	75-25-2	Not listed
2-Methyl-2-butene	513-35-9	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Bromoform	75-25-2	Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 3: H331 Toxic if inhaled. (Minimum classification); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation.; Hazardous to aquatic environment - chronic hazard - Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.602-007-00-X
2-Methyl-2-butene	513-35-9	

EU - CLP (1272/2008)

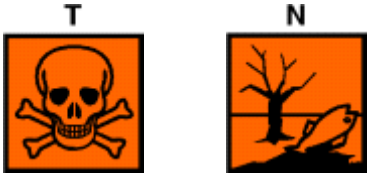
R-phrase(s)
R22 - Harmful if swallowed
R23 - Toxic by inhalation
R36/38 - Irritating to eyes and skin
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S -phrase(s)
S28 - After contact with skin, wash immediately with plenty of water
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
S 1/2 - Keep locked up and out of the reach of children.

Component	CAS No	**Classification**	**Concentration Limits:**	**Safety Phrases**
Bromoform	75-25-2	Xn; R22 T; R23 Xi; R36/38 N; R51-53	No information	S12 S28 S45 S63 S61
2-Methyl-2-butene	513-35-9		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
T - Toxic



16. OTHER INFORMATION

Preparation Date: 6/17/2019
Revision date 6/17/2019
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet