



1/13

SAFETY DATA SHEET

Preparation Date: 1/17/2014 Revision Date: 1/17/2014 Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: B1185

Product Name: BUTYL ALCOHOL, REAGENT, ACS

Other means of identification

Synonyms: 1-Butanol

1-Butyl alcohol1-Hydroxybutane

Alcool butylique (French)

Butan-1-ol Butanol

Butyl hydroxide

Butyric or normal primary butyl alcohol

Hemostyp
Methylolpropane
n-Butan-1-ol
n-Butanol
n-Butyl alcohol
Propylcarbinol
Propylmethanol

CAS #: 71-36-3
RTECS # EO1400000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Solvent. Chemical intermediate. Stabilizer.

Uses advised against No information available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Regina Wachenheim (East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

Acute toxicity - Oral Category 4

Product code: B1185 Product name: BUTYL ALCOHOL,

Acute toxicity - Inhalation (Gases)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 3

Label elements

Danger

Hazard statements

Harmful if swallowed

Harmful if inhaled

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation. May cause drowsiness or dizziness

Causes damage to organs through prolonged or repeated exposure

Flammable liquid and vapor



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful in contact with skin.

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

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/lighting/ .? /equipment

Use only non-sparking tools

Product code: B1185

Take precautionary measures against static discharge

Keep cool

Precautionary Statements - Response

Specific treatment (see .? on this label)

In case of fire: Use CO2, dry chemical, or foam to extinguish.

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 advice/attention.

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If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or

doctor/physician if you feel unwell.

IF SWALLOWED: Call a POISON CENTER or doctor/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/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Co	mponents	CAS-No.	Weight %	Trade Secret
Bu	tyl Alcohol	71-36-3	100	*
,	71-36-3			

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye 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.

Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Irritating to eyes, respiratory system and skin. Central nervous system effects. Hearing

impairment.

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: Carbon dioxide (CO2). Dry chemical. Alcohol-resistant foam.

Water spray.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter

and spread fire.

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Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon monoxide: Carbon dioxide

Specific hazards: Flammable. May be ignited by heat, sparks or flames.

Material can burn with invisible flame. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Container explosion may occur under fire conditions or when heated. Fire may produce irritating, corrosive and/or toxic

gases.

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. For

larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

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: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact

with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may

be used to reduce vapors, but may not prevent ignition in closed spaces.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas. In case

of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite,

dry sand or earth).

Methods for cleaning upUse appropriate tools to put the spilled material in a suitable chemical waste disposal

container. Use clean non-sparking tools to collect absorbed material. 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. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

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Safe Handling Advice:

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. 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. Keep away from heat and sources of ignition. Store in a segrated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents. Acids. Alkali Metals. Halogens. Aluminum. caustics. isocyanates.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	100 ppm TWA	50 ppm Ceiling	20 ppm TWA	None
Butyl Alcohol - 71-36-3	300 mg/m³ TWA	150 mg/m ³ Ceiling	* *	

Canada

Components	Alberta	British Columbia	Ontario	Quebec
	20 ppm TWA	15 ppm TWA	20 ppm TWA	50 ppm Ceiling
Butyl Alcohol - 71-36-3	60 mg/m ³ TWA	30 ppm Ceiling		152 mg/m ³ Ceiling

Australia and Mexico

Components	Australia	Mexico
Butyl Alcohol	None	50 ppm Peak
71-36-3		150 mg/m ³ Peak

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles. Safety glasses with side-shields.

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

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

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Liquid. No information available Clear. Colorless.

Odor:TasteFormula:Rancid. Sweet. Strong. Characteristic.Dry, burning taste.CH3(CH3)3OH

Mildly alcoholic. Similar to Amyl

alcohol.

Molecular/Formula weight: Flash point (°C): Flashpoint (°C/°F):

74.12 37 37 °C/98 °F

Flash Point Tested according to: Lower Explosion Limit (%): Upper Explosion Limit (%):

Closed cup 1.4% 11.2%

Autoignition Temperature (°C/°F): pH: Melting point/range(°C/°F):

343 °C/650 °F No information available -89.8 °C/-129.64 °F

Boiling point/range(°C/°F): Decomposition temperature(°C/°F): Specific gravity:

117 °C/343 °F No information available 0.8-0.81

Density (g/cm3): Vapor pressure @ 20°C (kPa):

No information available
No information available
No information available

Evaporation rate: Vapor density: VOC content (g/L):

0.46 (butyl acetate = 1) 2.6 800

Odor threshold (ppm): Partition coefficient Viscosity:

0.83 (n-octanol/water): No information available

0.88

Miscibility:Solubility:Miscible with EthanolSoluble in Water

Miscible with Ether Solubility in water: 63.2 g/L @ 25 °C

Miscible with many organic solvents

10. STABILITY AND REACTIVITY

Reactivity

It may react with aluminum at temperatures above 49 degrees C (120 degrees F)

Chemical stability

Stability: Stable at normal conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Oxidizing agents. Acids. Alkali Metals. Halogens. Aluminum. caustics. isocyanates.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide. When heated to decomposition it emits acrid smoke and

irritating fumes.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Skin. Eyes. Inhalation.

Acute Toxicity

Component Information

Butyl Alcohol - 71-36-3

LD50/oral/rat = 790 mg/kg Oral LD50 Rat (LOLI and RTECS)

4360 mg/kg (RTECS)

LD50/oral/mouse = 100 mg/kg (RTECS)

LD50/dermal/rabbit = 3400 mg/kg

LD50/dermal/rat = No information available

LC50/inhalation/rat = 8000 ppm Inhalation LC50 Rat 4 h

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information =

3484 mg/kg Oral LD50 Rabbit (RTECS)

1200 mg/kg Oral LD50 Hamster (RTECS)

1782 mg/kg Oral LD50 Dog (RTECS)

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 790mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 100mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = 3400mg/kg

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = > 17.7mg/l (4-hr)

VALUE-Gas = 8000ppm (4-hr)

VALUE-Dust/Mist = 24mg/l (4-hr.)

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Contact causes skin irritation. Moderately irritating to the skin. It may be absorbed

through the skin. If absorbed through skin it may cause systemic effects with

symptoms similar to those of ingestion.

Eye Contact: Causes eye irritation. Severe eye irritation. Possible eye damage.

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Harmful by inhalation. Irritating to respiratory system. Symptoms may include Inhalation

> coughing and shortness of breath. Symptoms may include coughing and wheezing. May affect respiration (respiratory depression). May cause conjunctival irritation. May cause nausea, vomiting. May cause headache. Inhalation of high concentrations of vapors may cause dizziness or suffocation. May affect behavior/central nervous system (dizziness, somnolence, muscle weakness, ataxia). It may affect the liver. It may affect the blood (changes in serum composition). It may affect the blood

(changes in white blood cell count, changes in other cell count).

Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea. Ingestion

> vomiting and diarrhoea. May cause gastritis. May affect the cardiovascular system (change in heart rate). It may affect the liver (fatty liver degeneration). May affect urinary system (kidneys). May affect the blood. May affect respiration (shortness of

breath).

Aspiration hazard No information available

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

No information available

Prolonged or repeated skin contact may cause dermatitis, and dryness and cracking **Chronic Toxicity**

> of the skin.. Prolonged or repeated inhalation of high concentrations may cause hearing impairment, with auditory nerve damage and vestibular system injury, and severe vertigo (diagnosed as Meniere's disease). Prolonged or repeated inhalation may affect the brain. Prolonged or repeated inhalation may affect the liver. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated ingestion may affect behavior/central nervous system (somnolence, ataxia, muscle weakness). Prolonged or repeated ingestion may affect the blood (changes in red blood cell count). Prolonged or repeated inhalation may affect the adrenal gland. Prolonged or

repeated ingestion may affect the adrenal gland.

Sensitization: No information available

Carcinogenic effects: Not considered carcinogenic

Components	ACGIH -	IARC	NTP	OSHA HCS -	Australia - Prohibited	Australia - Notifiable
-	Carcinogens			Carcinogens	Carcinogenic	Carcinogenic
					Substances	Substances
Butyl Alcohol	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity No data is available

Reproductive Effects: No information available

Developmental Effects: May cause developmental effects based on animal data. Possible risk of harm to the

unborn child. No information on developmental toxicity effects on humans was found. There is limited and equivocal evidence that Butyl alcohol is a teratogen in aminals. It

has not been shown to cause teratogenic effects in humans.

Specific Target Organ Toxicity

Teratogenic Effects:

Mutagenic Effects:

STOT - single exposure respiratory system.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure:. Skin. Eyes.

Ears. central nervous system. kidney. liver.

Skin. Eyes. Central nervous system. Kidneys. Liver. Ears. Auditory nerve. **Target Organs:**

Respiratory system.

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Butyl Alcohol - 71-36-3

Freshwater Algae Data: 500 mg/L EC50 Desmodesmus subspicatus 72 h

500 mg/L EC50 Desmodesmus subspicatus 96 h

Freshwater Fish Species Data: 100000-500000 µg/L LC50 Lepomis macrochirus 96 h static 1

1730-1910 mg/L LC50 Pimephales promelas 96 h static 1 1740 mg/L LC50 Pimephales promelas 96 h flow-through 1 1910000 µg/L LC50 Pimephales promelas 96 h static 1

Water Flea Data: 1897 - 2072 mg/L EC50 Daphnia magna 48 h

1983 mg/L EC50 Daphnia magna 48 h

Persistence and degradability: Readily biodegradable

Bioaccumulative potential: Potential for bioconcentration in aquatic organisms is low.

Mobility: It is expected to have high mobility in soil.

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

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Butyl Alcohol	None	None	None	U031 Ignitable waste

14. TRANSPORT INFORMATION

DOT

UN-No: UN1120 Proper Shipping Name: UN1130

Hazard Class: 3

Subsidiary Risk: Not applicable

Packing Group:

Marine Pollutant No data available

ERG No: 129

DOT RQ (lbs):No information available

Symbol(s): R5

TDG (Canada)

UN-No: UN1120
Proper Shipping Name: Butanols
Hazard Class: 3

Product code: B1185 Product name: BUTYL ALCOHOL, 9/13

14. TRANSPORT INFORMATION

Subsidiary Risk: No information available

Packing Group:

Description: No information available

ADR

UN-No: UN1120 Proper Shipping Name: Butanols

Hazard Class: 3
Packing Group: |||

Subsidiary Risk:No information availableClassification Code:No information availableDescription:No information availableCEFIC Tremcard No:No information available

IMO / IMDG

UN-No: UN1120 Proper Shipping Name: Butanols

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Description:No information availableIMDG Page:No information availableMarine PollutantNo information available

EMS: F-E

MFAG: No information available Maximum Quantity: No information available

RID

UN-No: UN1120 Proper Shipping Name: Butanols

Hazard Class: 3
Subsidiary Risk: 3
Packing Group: |||

Classification Code: No information available Description: No information available

ICAO

UN-No: UN1120 Proper Shipping Name: Butanols

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Description: No information available

IATA

UN-No: UN1120 Proper Shipping Name: Butanols

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group: III ERG Code: 3L

Description: No information available

15. REGULATORY INFORMATION

International Inventories

Product code: B1185 Product name: BUTYL ALCOHOL, REAGENT, ACS

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Components	U.S. TSCA	Philippines (PICCS)	KOREA KECL	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Butyl Alcohol	Present	Present	Present KE- 03867	Present (2)- 3049	Present	Present	Present 200-751-6

U.S. Regulations

Butyl Alcohol

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: Present

New Jersey (EHS) List: Present

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Present

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

5000 lb RQ 1 lb RQ

Louisana Reportable Quantity List for Pollutants: Listed California Directors List of Hazardous Substances: Present

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

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

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)

Components	Carcinogen	Developmental Toxicity	Male Reproductive	Female Reproductive
			Toxicity	Toxicity:
Butyl Alcohol	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

 Substances and their	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Chemical Category	Section 313 - Reporting de minimis
 5000 lb final RQ 2270 kg final RQ	None	None		1.0 % de minimis concentration

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Butyl Alcohol	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

B2 Flammable liquid D2B Toxic materials

Butyl Alcohol

B2 D2B

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Butyl Alcohol	1 %

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Inventory

Components	Canada (DSL)	Canada (NDSL)
Butyl Alcohol	Present	Not Listed

Components		CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
Butyl Alcohol	Not listed	Not listed

EU Classification

R-phrase(s)

R10 - Flammable.

R22 - Harmful if swallowed.

R41 - Risk of serious damage to eyes.

R67 - Vapors may cause drowsiness and diziness.

R37/38 - Irritating to respiratory system and skin.

S -phrase(s)

S 7 - Keep container tightly closed.

S 9 - Keep container in a well-ventilated place.

S13 - Keep away from food, drink and animal feedingstuffs.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 - Wear suitable gloves.

S39 - Wear eye/face protection.

S46 - If swallowed, seek medical advice immediately and show this container or label.

Components	Classification	Concentration Limits:	Safety Phrases
Butyl Alcohol	R10	No information	S2 S7/9 S13 S26 S37/39
	Xn; R22		S46
	Xi; R37/38-41		
	R67		

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

Indication of danger:

Xn - Harmful.

Xi - Irritant.





16. OTHER INFORMATION

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16. OTHER INFORMATION			
NFPA	HMIS	Personal Protective Equipment	



Health Hazard	2
Fire Hazard	3
Reactivity	0









See Section 8.

Preparation Date: 1/17/2014
Revision Date: 1/17/2014
Prepared by: Sonia Owen

Disclaimer:

Product code: B1185

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 Material Safety Data Sheet