

## SAFETY DATA SHEET

Preparation Date: 8/14/2017

Revision date 7/11/2019

Revision Number: G2

### 1. IDENTIFICATION

#### Product identifier

**Product code:** N1095  
**Product Name:** NITROMETHANE, REAGENT, ACS

#### Other means of identification

**Synonyms:** Nitrocarbol  
**CAS #:** 75-52-5  
**RTECS #** PA9800000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** Rocket fuels.  
**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
Serious eye damage/eye irritation	Category 2B
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 3

#### Label elements

##### **Warning**

##### **Hazard statements**

Harmful if swallowed  
 Causes eye irritation  
 Suspected of causing cancer  
 May cause respiratory irritation

Flammable liquid and vapor



**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Not available

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
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  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed  
Ground container and receiving equipment  
Use explosion-proof equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Keep cool

**Precautionary Statements - Response**

In case of fire: Use CO<sub>2</sub>, 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 attention.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell  
Rinse mouth

**Precautionary Statements - Storage**

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

**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-%
Nitromethane	75-52-5	100

**4. FIRST AID MEASURES**

**First aid measures**

**General Advice:** National Capital Poison Center in the United States can provide assistance if you

**Product code:** N1095

**Product name:** NITROMETHANE,  
REAGENT, ACS

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have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

- Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.
- 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. 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**
- Causes eye irritation
  - Mild eye irritation
  - Irritating to respiratory system
  - Coughing and wheezing
  - May affect the liver
  - It may affect the kidneys
  - May cause methemoglobinemia and cyanosis
  - Central nervous system effects
  - Drowsiness
  - Dizziness
  - Headache
  - Fatigue
  - Weakness
  - May cause incoordination
  - May cause nausea and vomiting
  - May cause diarrhea
  - May affect the cardiovascular system
  - Dyspnea (Shortness of breath and difficulty breathing)

**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.

**Specific hazards arising from the chemical**

**Hazardous combustion products** Carbon Monoxide, Carbon Dioxide. Nitrogen oxides (NOx).

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

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:**

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 entry into waterways, sewers, basements or confined areas.

### **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). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up**

Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. 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.

**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. Store in a segregated and approved area. Store away from incompatible materials.

**Incompatible Materials:**

Strong oxidizing agents  
 Strong acids  
 Strong bases  
 Amines  
 Alkalis  
 Aluminum powder  
 Copper  
 Copper alloys  
 Lead  
 Lead alloys

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**National occupational exposure limits**

**United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Nitromethane	75-52-5	100 ppm TWA 250 mg/m <sup>3</sup> TWA	None	20 ppm TWA	None

**Canada**

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Nitromethane	75-52-5	20 ppm TWA 50 mg/m <sup>3</sup> TWA	20 ppm TWA	None	None

**Australia and Mexico**

Component	CAS No	Australia	Mexico
Nitromethane	75-52-5	20 ppm TWA 50 mg/m <sup>3</sup> TWA	20 ppm TWA

**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
- 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

<b>Physical state:</b> Liquid	<b>Appearance:</b> Oily.	<b>Color:</b> Colorless.
<b>Odor:</b> Disagreeable.	<b>Taste</b> No information available.	<b>Formula</b> CH <sub>3</sub> NO <sub>2</sub>
<b>Molecular/Formula weight (g/mole):</b> 61.04	<b>Flammability (solid, gas)</b> Flammable	<b>Flashpoint (°C/°F):</b> 35-36 °C/95-97 °F
<b>Flash Point Tested according to:</b> Closed cup	<b>Autoignition Temperature (°C/°F):</b> 418 °C/784.4 °F	<b>Lower Explosion Limit (%):</b> 7.3%
<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> -29 °C/-20 °F	<b>Decomposition temperature(°C/°F):</b> Explosive decomposition begins at 315 °C/599 °F
<b>Boiling point/range(°C/°F):</b> 101.1 °C/ 214 °F	<b>Bulk density:</b> No information available	<b>Density (g/cm<sup>3</sup>):</b> No information available
<b>Specific gravity:</b> 1.13-1.14	<b>pH</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> 3.64
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> 2.11	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> 3.5	<b>Partition coefficient (n-octanol/water):</b> log Kow = -0.35	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Soluble in Ethanol Soluble in Ether Soluble in Carbon tetrachloride Soluble in Water	

## 10. STABILITY AND REACTIVITY

### Reactivity

Incompatible with Alkyl metal halides (sodium chloride, and Lithium Bromide), Diethyl aluminum bromide, methyl zinc iodide, ammonia hydroxide, calcium hypochlorite, formaldehyde

Addition of bases or acids to Nitromethane renders it susceptible to initiation by a detonator. These include aniline, diaminoethane, morpholine, methylamine, ammonium hydroxide, potassium hydroxide, sodium carbonate, and formic, nitric, sulfuric or phosphoric acid

Copper salts and nitromethane spontaneously form explosive materials

Nitromethane forms shock-sensitive mixtures with amines, strong acids, acetone, aluminum powder, copper, copper alloys, lead, lead alloys

Elevated temperatures can cause explosive decomposition, especially when confined

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

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

**Incompatible Materials:** Strong oxidizing agents  
Strong acids  
Strong bases

Amines  
Alkalis  
Aluminum powder  
Copper  
Copper alloys  
Lead  
Lead alloys

**Hazardous decomposition products:** Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).

**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. Skin.

### Acute Toxicity

#### Component Information

Nitromethane	
CAS No	75-52-5

**LD50/oral/rat** = 940 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = >2000 mg/kg Dermal LD50Rabbit  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = >12.75 mg/L Inhalation LC50 Rat 1 h  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

#### Product Information

**LD50/oral/rat** =  
**Value - Acute Toxicity** = 940 mg/kg

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

**LD50/dermal/rabbit**  
**Value - Acute Toxicity** = > 2000 mg/kg

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

**LC50/inhalation/rat**  
**VALUE-Vapor** = >12.75 mg/l mg/m<sup>3</sup>  
**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:** May cause skin irritation.**Eye Contact:** May cause eye irritation.

**Inhalation** Irritating to respiratory system. Symptoms may include coughing and wheezing. May cause sore throat. May cause nausea, vomiting. May cause diarrhea. May cause drowsiness/sleepiness. May cause headache. May cause weakness. It may affect behavior/central nervous system (ataxia). May cause methemoglobinemia (the formation of methemoglobin in the blood which causes deficient oxygenation of the blood due to decreased available hemoglobin). Methemoglobinemia can lead to cyanosis (bluish skin and lips due to deficient oxygenation of the blood), and can result in fatigue, dizziness, lightheadedness, headache, mental impairment, incoordination, muscular weakness, convulsions/seizures, tachycardia or bradycardia (slow or fast heart beat), hypertension, dysrhythmias, dyspnea (shortness of breath and labored breathing), loss of consciousness, and death. Arterial blood with elevated methemoglobin levels has a characteristic chocolate-brown color as compared to normal bright red oxygen containing arterial blood. Severe methemoglobinemia is characterized by bradycardia or tachycardia (slow or fast heart beat), dysrhythmias, seizures, coma and death.

**Ingestion** Harmful if swallowed. It may affect the kidneys and liver.**Aspiration hazard** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Chronic Toxicity** Chronic exposure may affect the liver and kidneys. Prolonged or repeated inhalation may cause bronchitis with coughing, phlegm, and/or shortness of breath. Prolonged skin contact may cause drying and cracking of the skin.**Sensitization:** No information available.**Mutagenic Effects:** No information available**Carcinogenic effects:** Possibly carcinogenic to humans.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Nitromethane	75-52-5	Group 2B Possibly Carcinogenic to Humans Monograph 77 [2000]	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	Reasonably Anticipated To Be A Human Carcinogen	Present	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)**IARC (International Agency for Research on Cancer)*



**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available  
**Developmental Effects:** No information available  
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

*Nitromethane - 75-52-5*

**Algae/aquatic plants** EC50: =36mg/L (72h, Desmodesmus subspicatus)  
**Fish** LC50: <278mg/L (96h, Pimephales promelas) LC50: =460mg/L (48h, Brachydanio rerio)

**Crustacea** EC50: =450mg/L (24h, 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
Nitromethane	75-52-5	None	None	None	None

**14. TRANSPORT INFORMATION**

**DOT**

**UN-No:** UN1261  
**Proper Shipping Name:** Nitromethane  
**Hazard Class** 3

**Subsidiary Class** No information available  
**Packing group:** II  
**Emergency Response Guide Number** 129  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** No Information available  
**Symbol(s):** No information available  
**Description:** UN1261, Nitromethane, 3, II

#### **TDG (Canada)**

**UN-No:** UN1261  
**Proper Shipping Name:** Nitromethane  
**Hazard Class** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant** No Information available  
**Description:** UN1261, Nitromethane, 3, II

#### **ADR**

**UN Number** UN1261  
**Proper Shipping Name:** Nitromethane  
**Transport hazard class(es)** 3  
**Packing group** II  
**Subsidiary Risk:** No information available  
**Description:** UN1261, Nitromethane, 3, II

#### **IMDG**

**UN-No:** UN1261  
**Proper Shipping Name:** Nitromethane  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant** No information available  
**EMS:** F-E  
**Special Provisions** 26  
**Description** UN1261, Nitromethane, 3, II

#### **RID**

**UN Number** UN1261  
**Proper Shipping Name:** Nitromethane  
**Transport hazard class(es)** 3  
**Subsidiary Risk:** No information available  
**Packing group** II  
**Description:** UN1261, Nitromethane, 3, II

#### **ICAO (air)**

**UN-No:** UN1261  
**Proper Shipping Name:** Nitromethane  
**Hazard Class** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** UN1261, Nitromethane, 3, II  
**Special Provisions** A1, A39

#### **IATA**

**UN Number** UN1261  
**Proper Shipping Name:** Nitromethane

**Transport hazard class(es)** 3  
**Subsidiary Risk:** No information available  
**Packing group** II  
**Precautionary Statements - Response** 3L  
**Special Provisions** No information available  
**Description:** UN1261, Nitromethane, 3, II

## 15. REGULATORY INFORMATION

### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Nitromethane	75-52-5	PresentACTIVE	Present KE-26005	Present	Present (2)-191	Present	Present	Present 200-876-6


### U.S. Regulations

#### Nitromethane

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 1386  
**New Jersey (EHS) List:** 1386 500 lb TPQ  
**New Jersey TCPA - EHS:** 2500lbTQ  
**Pennsylvania RTK:** Present  
**Minnesota - Hazardous Substance List:** Present  
**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:

 **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](http://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:
Nitromethane	75-52-5	carcinogen	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
Nitromethane	75-52-5	None	None	None	None	0.1 % de minimis concentration

### 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
Nitromethane	75-52-5	Not Applicable	Not Applicable

### Canada

## WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component  
Nitromethane  
75-52-5 ( 100 )

WHMIS 2015 Hazard Classification  
Flammable liquids - Category 3: H226 Flammable liquid and vapour.; Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Carcinogenicity - Category 2: H351 Suspected of causing cancer.; Specific target organ toxicity - Repeated exposure - Category 2: H373 May cause damage to organs through prolonged or repeated exposure.; Physical Hazards Not Otherwise Classified - Category 1: May cause an explosion under conditions of shock and/or friction

**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)
Nitromethane	75-52-5	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Nitromethane	75-52-5	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Nitromethane	75-52-5	Not listed

## EU Classification

### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Nitromethane	75-52-5	Flammable liquids - Flam. Liq. 3: H226 Flammable liquid and vapour.; Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification)609-036-00-7

### EU - CLP (1272/2008)

#### **R-phrase(s)**

R22 - Harmful if swallowed  
R 5 - Heating may cause an explosion.  
R10 - Flammable

#### **S -phrase(s)**

S 2 - Keep out of the reach of children.  
S41 - In case of fire and/or explosion do not breathe fumes

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Nitromethane	75-52-5	Xn; R22 R5-10	12.5%<=C Xn; R22	S2 S41

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

**Indication of danger:**

Xn - Harmful  
Flammable

Xn

**16. OTHER INFORMATION**

**Preparation Date:** 8/14/2017  
**Revision date** 7/11/2019  
**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**