

SAFETY DATA SHEET

Preparation Date: 7/3/2019

Revision date 7/3/2019

Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: S1130
Product Name: SODIUM ARSENATE, HEPTAHYDRATE, CRYSTAL, REAGENT, ACS

Other means of identification

Synonyms: Dibasic sodium arsenate heptahydrate
 Disodium arsenate, heptahydrate
 Sodium acid arsenate, heptahydrate
 Sodium arsenate, dibasic, heptahydrate
 Sodium arseniate heptahydrate

CAS #: 10048-95-0
RTECS # CG0900000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
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 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Carcinogenicity	Category 1A

Label elements

Danger

Hazard statements
 Toxic if swallowed or if inhaled

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May cause cancer



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Very toxic to aquatic life with long lasting effects
Very toxic to aquatic life

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Do not eat, drink or smoke when using this product
Avoid breathing dust
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
IF SWALLOWED: Immediately call a POISON CENTER or physician
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-%
Sodium Arsenate, Heptahydrate	10048-95-0	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

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 if irritation occurs.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **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. Toxic by inhalation.

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

Most important symptoms and effects, both acute and delayed

Symptoms

- May cause eye/skin irritation
- Causes digestive (gastrointestinal) tract irritation
- Abdominal pain
- Ingestion may cause vomiting and nausea
- May cause hypermotility, diarrhea
- It may affect the kidneys
- May affect the liver
- May cause cardiovascular effects
- Hypotension
- Weak, rapid pulse or rapid heart rate (Tachycardia)
- May affect electrolyte balance
- garlic breath
- May affect eyes/vision
- Diplopia
- Burning sensation of the respiratory tract
- Coughing
- Constriction of oral and nasal cavities
- Thirst
- Dehydration
- May cause skin lesions or ulcerations of varied character, papules, multiple warts, and depigmentation with hyperkeratinization (thickening) of exposed skin
- It may affect the peripheral nervous system
- Peripheral neuropathy
- Paresthesia (numbness and tingling of the extremities)
- Perforation of the nasal septum if inhaled in excessive quantities
- Mee's lines (transverse white lines) in the nails may be seen after acute or chronic exposure
- May affect the bone marrow
- Central nervous system effects
- Muscle weakness

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 If it is involved in a fire, the following can be released:
sodium oxides; arsenic oxides

Hazardous combustion products If it is involved in a fire the following can be released:.
Arsenic. Arsenic oxides. Sodium oxides.

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. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

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.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up 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. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. 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 away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents
 Metals
 Iron
 Aluminum
 Zinc
 Strong acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**National occupational exposure limits****United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Arsenate, Heptahydrate	10048-95-0	10 ug/L TWA (as As)	0.002 ,g/m ³ Ceiling (as As, 15 min); 5 mg/m ³ IDLH (as As)	0.01 mg/m ³ TWA (as As)	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sodium Arsenate, Heptahydrate	10048-95-0	0.01 mg/m ³ TWA (except Arsine, as As)	0.01 mg/m ³ TWA (as As)	0.01 mg/m ³ TWA (except Arsine, as As); 0.05 mg/m ³ STEL (except Arsine, as As)	0.1 mg/m ³ TWA EV (except ARsine, as As)

Australia and Mexico

Component	CAS No	Australia	Mexico
Sodium Arsenate, Heptahydrate	10048-95-0	None	0.01 mg/m ³ TWA (as As)

Appropriate engineering controls**Engineering measures to reduce exposure:**

Ensure adequate ventilation. 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 or Safety glasses with side-shields.
- Skin and body protection:** Long sleeved clothing
 Chemical resistant apron
 Gloves
- Respiratory protection:** Wear respirator with dust filter. 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

Physical state: Solid	Appearance: Crystals. Crystalline.	Color: White.
Odor: Odorless.	Taste No information available.	Formula NaAsO ₂
Molecular/Formula weight (g/mole): 312.01	Flammability (solid, gas) Not flammable	Flashpoint (°C/°F): No information available
Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available
Upper Explosion Limit (%): No information available	Melting point/range(°C/°F): 57°C/134.6°F when heated rapidly	Decomposition temperature(°C/°F): 150-180°C/302-356°F
Boiling point/range(°C/°F): No information available	Bulk density: No information available	Density (g/cm³): No information available
Specific gravity: 1.87	pH No information available	Vapor pressure @ 20°C (kPa): No information available
Evaporation rate: No information available	Vapor density: No information available	VOC content (g/L): No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available	Viscosity: No information available
Miscibility: No information available	Solubility: Soluble in Water Solubility in Water: 5.46 g/100 cc water @ 0 deg. C; 100 g/100 cc water @ 100 deg. C	

10. STABILITY AND REACTIVITY

Reactivity

Reactive with acids

Reactive with strong oxidizing agents

Efflorescent in warm air. Loses 5 H₂O at 50 deg. C. Becomes anhydrous at 100 deg. C. At 150 deg. C or over, it is converted to pyoarsenate

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials.

Incompatible Materials: Strong oxidizing agents
Metals
Iron
Aluminum

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Zinc
Strong acids

Hazardous decomposition products: Arsenic oxides. Arsenic. Sodium oxides.

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

Sodium Arsenate, Heptahydrate	
CAS No	10048-95-0

LD50/oral/rat = No information available
LD50/oral/mouse = No information available
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 LC50 information = 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

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VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	May cause skin irritation.
Eye Contact:	May cause eye irritation.
Inhalation	Toxic by inhalation. May cause irritation of respiratory tract. May cause chest pain, shortness of breath and symptoms similar to that of ingestion.
Ingestion	Toxic if swallowed.
Ingestion:	May cause burning lips, throat constriction, dysphagia, abdominal pain, hemorrhagic gastritis, gastroenteritis, severe nausea, vomiting, diarrhea, muscle cramps, thirst, fluid-electrolyte disturbances, and a garlic-like odor of the breath and feces. May also affect behavior/central nervous system/peripheral nervous system (headache, lethargy, somnolence, ataxia, muscular weakness, mental confusion, hallucinations, emotional lability, memory loss, mental confusion, delirium, seizures, stupor, incoordination, convulsions, coma, and possible death), cardiovascular system (dysrhythmias, hypotension, irregular pulse, cardiomyopathy), liver (hepatitis), kidneys (renal failure), blood (anemia, leukopenia, thrombocytopenia) and cause peripheral neuropathy, bone marrow suppression, skin eruptions
Aspiration hazard	No information available.

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

Chronic Toxicity	Chronic exposure to arsenic or arsenic compounds by dermal contact can cause dermatitis or painful ulceration of the skin, lips. The wrists, as are the genitalia (if personal hygiene is poor) are common sites. It can also cause hyperkeratosis (thickening of the skin), depigmentation (patchy areas of darkening and loss of pigment) and some persons may develop Mees' lines (white lines on the nails). Chronic exposure to arsenic or arsenic compounds by inhalation may cause irritation and conjunctivitis of the eyes, lacrimation hoarseness of the voice, laryngitis, irritation of the lips, nasal irritation (irritation of the nostrils), mucous membrane irritation, possible perforation of the nasal septum, and other symptoms similar to chronic ingestion. Chronic inhalation of arsenic and arsenic compounds is the most common cause of occupational poisoning. Chronic ingestion of arsenic or arsenic compounds can cause nausea, vomiting, anorexia, a garlic-like odor of the breath, and sweat and may affect the kidneys (renal tubular disorder/necrosis, anuria, hematuria, proteinuria, renal failure), liver (hepatomegaly, jaundice). It may also affect the blood/bone marrow (pancytopenia, isolated leukopenia, aplastic anemia, acute myelogenous leukemia), and cause alopecia (hair loss), dermatitis, skin disorders such as melanosis, depigmentation, keratosis, hyperkeratosis, Mees' lines and dimness of vision, double vision, and hyperglycemia. Prolonged or repeated inhalation or ingestion may affect the peripheral nervous system (muscle weakness, peripheral neuropathy with paresthesia - a tingling, pricking, or numbness of the skin (known as the feeling of "pins and needles" generally of the hands and feet (extremities)), paralysis).
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Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: May cause cancer.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium Arsenate, Heptahydrate	10048-95-0	Group 1 - Carcinogenic to humans (for inorganic arsenic compounds)	A1- Confirmed Human Carcinogen (for inorganic arsenic compounds)	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

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 No information available.

STOT - repeated exposure No information available.

Target Organs: Liver. Kidneys. Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

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
Sodium Arsenate, Heptahydrate	10048-95-0	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1685
Proper Shipping Name: Sodium arsenate
Hazard Class 6.1
Subsidiary Class No information available
Packing group: II
Emergency Response Guide Number 151
Marine Pollutant Severe Marine Pollutant
DOT RQ (lbs): No information available
Special Provisions IB8, IP2, IP4, T3, TP33
Symbol(s): No information available
Description: UN1685, Sodium arsenate, 6.1, II

TDG (Canada)

UN-No: UN1685
Proper Shipping Name: Sodium arsenate
Hazard Class 6.1
Subsidiary Risk: No information available
Packing Group: II
Marine Pollutant No Information available
Description: UN1685, Sodium arsenate, 6.1, II

ADR

UN Number UN1685
Proper Shipping Name: Sodium arsenate
Transport hazard class(es) 6.1
Packing group II
Subsidiary Risk: No information available
Description: UN1685, Sodium arsenate, 6.1, II

IMDG

UN-No: UN1685
Proper Shipping Name: Sodium arsenate
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: II
Marine Pollutant No information available
EMS: F-A
Description UN1685, Sodium arsenate, 6.1, II

RID

UN Number UN1685
Proper Shipping Name: Sodium arsenate
Transport hazard class(es) 6.1
Subsidiary Risk: No information available
Packing group II
Description: UN1685, Sodium arsenate, 6.1, II

ICAO (air)

UN-No: UN1685
Proper Shipping Name: Sodium arsenate
Hazard Class 6.1
Subsidiary Risk: No information available
Packing Group: II
Description: UN1685, Sodium arsenate, 6.1, II

IATA

UN Number UN1685
Proper Shipping Name: Sodium arsenate
Transport hazard class(es) 6.1
Subsidiary Risk: No information available
Packing group II
Precautionary Statements - Response 6L
Special Provisions No information available
Description: UN1685, Sodium arsenate, 6.1, II

15. REGULATORY INFORMATION**International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Sodium Arsenate, Heptahydrate	10048-95-0	Not listed. It is exempt from listing on the TSCA 8(b) Inventory since it is a hydrate. However, the anhydrous form (CAS no. 7778-43-0) is listed as ACTIVE on the TSCA 8(b) Inventory	Not present	Present	Not present	Present	Present	Not present

U.S. Regulations

Sodium Arsenate, Heptahydrate

New Jersey RTK Hazardous Substance List: sn 2138 (arsenic inorganic compounds)

New Jersey (EHS) List: SN 2138 500 lb TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present (arsenic inorganic compounds)

Pennsylvania RTK: Environmental Hazard (arsenic inorganic compounds)

Pennsylvania RTK - Environmental Hazard List 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:

 **WARNING:** This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
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				Reproductive Toxicity	Reproductive Toxicity:
Sodium Arsenate, Heptahydrate	10048-95-0	carcinogen (inorganic arsenic compounds)	developmental toxicity (arsenic inorganic oxides)	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
Sodium Arsenate, Heptahydrate	10048-95-0	None	None	None	Arsenic inorganic compounds	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
Sodium Arsenate, Heptahydrate	10048-95-0	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

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)
Sodium Arsenate, Heptahydrate	10048-95-0	Not Listed	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Sodium Arsenate, Heptahydrate	10048-95-0	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Sodium Arsenate, Heptahydrate	10048-95-0	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Sodium Arsenate, Heptahydrate	10048-95-0	

EU - CLP (1272/2008)

R-phrases(s)

R45 - May cause cancer

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R50 - Very toxic to aquatic organisms
R53 - May cause long-term adverse effects in the aquatic environment
R23/25 - Toxic by inhalation and if swallowed

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)
S60 - This material and its container must be disposed of as hazardous waste
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.
S20/21 - When using, do not eat, drink or smoke.

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Sodium Arsenate, Heptahydrate	10048-95-0	T; R23/25 N; 50-53 Carc. Cat.1; R45 (for Arsenic inorganic compounds and arsenic acid salts)	0.2%<=C: T;R23/25 0.1%<=C<0.2%: Xn;R20/22 (for arsenic inorganic compounds)	S:(1/2)-20/21-28-45-60 -61 (for arsenic inorganic compounds)

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

Indication of danger:
None

16. OTHER INFORMATION

Preparation Date: 7/3/2019
Revision date 7/3/2019
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