

SAFETY DATA SHEET

Preparation Date: 06/10/2015

Revision Date: 06/28/2018

Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: R1529
Product Name: RESORCINOL, FLAKE, TECHNICAL

Other means of identification

Synonyms: 1,3-Benzenediol
 1,3-Dihydroxybenzene
 3-Hydroxycyclohexadien-1-one
 3-Hydroxyphenol
 Benzene, 1,3-dihydroxy-
 Benzene, m-dihydroxy-
 C.I. 76505
 C.I. Developer 4
 C.I. Oxidation Base 31
 Developer O
 Developer R
 Developer RS
 Dihydroxybenzol
 Durafur developer G
 Fouramine RS
 Furrine 79
 Furrine EW
 Nako TGG
 Pelagol Grey RS
 Pelagol RS
 Phenol, m-hydroxy-
 Resorcin
 Resorcine
 Resorcinol
 Resorcinolum
 Resorzin
 m-Benzenediol
 m-Dihydroxybenzene
 m-Dioxybenzene
 m-Hydroquinone
 m-Hydroxyphenol
CAS #: 108-46-3
RTECS # VG9625000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: In tanning; manufacturing resins, resin adhesives, hexylresorcinol, p-amino salicylic acid, explosives, and dyes; In rubber industry for tires and reinforced rubber products; wood adhesives; pharmaceuticals; cross-linking agent; a rubber tackifier; and cosmetic; In photography; chemical intermediate used in oxidation hair dyes; medication.

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: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to 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
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

Label elements

Danger

Hazard statements

Toxic if swallowed
Causes serious eye damage
Causes skin irritation
Causes damage to organs through prolonged or repeated exposure



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
Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves
Wear eye/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. Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN: Wash with plenty of water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Resorcinol	108-46-3	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.

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 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. Get medical attention.

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

Most important symptoms and effects, both acute and delayed

Symptoms

- Causes serious eye irritation
- Causes skin irritation
- May cause digestive (gastrointestinal) tract irritation
- Dyspnea (Shortness of breath and difficulty breathing)
- Coughing and wheezing
- May cause methemoglobinemia and cyanosis
- Headache
- Dizziness
- Irritating to respiratory system
- Nose and throat irritation

Indication of any immediate medical attention and special treatment needed

Product code: R1529

Product name: RESORCINOL,
FLAKE, TECHNICAL

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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: Dry chemical. Carbon dioxide (CO₂). Water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Oxides.

Specific hazards: May be combustible at high temperatures. Explosive reaction with concentrated nitric acid.

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. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter 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 Use appropriate tools to put the spilled solid in a suitable waste disposal container. 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. Avoid dust formation. Remove all sources of ignition. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Hygroscopic. Protect from moisture. Protect from light. Sensitive to light. Store in light-resistant containers. 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:

- Oxidizing agents
- Acids
- Bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Resorcinol	108-46-3	None	10 ppm TWA 45 mg/m ³ TWA 20 ppm STEL 90 mg/m ³ STEL	20 ppm STEL 10 ppm TWA	Not determined

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Resorcinol	108-46-3	10 ppm TWA 45 mg/m ³ TWA 20 ppm STEL 90 mg/m ³ STEL	10 ppm TWA 20 ppm STEL	20 ppm STEL	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Resorcinol	108-46-3	20 ppm STEL 90 mg/m ³ STEL 10 ppm TWA 45 mg/m ³ TWA	10 ppm TWA 45 mg/m ³ TWA 20 ppm STEL 90 mg/m ³ STEL

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:	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: Crystalline powder. Crystals.	Color: White.
Odor: Characteristic.	Taste Sweet with bitter after taste.	Formula: C6H6O2
Molecular/Formula weight: 110.11	Flammability: No information available	Flash point (°C): 127.22°C
Flashpoint (°C/°F): 127.2°C/ 261°F	Flash Point Tested according to: Closed cup	Autoignition Temperature (°C/°F): 607.78°C/ 1126°F
Lower Explosion Limit (%): No information available	Upper Explosion Limit (%): No information available	Melting point/range(°C/°F): 110°C/ 230°F
Decomposition temperature(°C/°F): No information available	Boiling point/range(°C/°F): 277-281°C/ 530.6-537.8°F	Bulk density: No information available
Density (g/cm3): No information available	Specific gravity: 1.272	pH: 5.2
Vapor pressure @ 20°C (kPa): No information available	Evaporation rate: No information available	Vapor density: 3.8
VOC content (g/L): No information available	Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): 0.8
Viscosity: No information available	Miscibility: No information available	Solubility: Easily soluble in cold water Easily soluble in diethyl ether Soluble in Alcohol Soluble in Acetic acid Soluble in Dimethyl Sulfoxide Slightly soluble in chloroform Freely soluble in glycerol

10. STABILITY AND REACTIVITY

Reactivity

Reactive with strong oxidizing agents
Explosive reaction with concentrated nitric acid
Reactive with acetanilide, albumin, alkalies, antipyrine, camphor, ferri salts, menthol, spirit nitrous ether, urethane, periodate
Reacts with strong bases

Chemical stability

Stability: Hygroscopic. Sensitive to light. Exposure to light accelerates decomposition.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Incompatible materials. Avoid dust formation. Exposure to light. Exposure to moisture. Exposure to moist air.

Incompatible Materials: Oxidizing agents
Acids
Bases

Hazardous decomposition products: Carbon 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:
Skin. Eyes. Ingestion. Inhalation.

Acute Toxicity

Component Information

Resorcinol
CAS-No. 108-46-3

LD50/oral/rat = 202 mg/kg Oral LD50 Rat
LD50/oral/mouse = 200 mg/kg
LD50/dermal/rabbit = 3360 mg/kg Dermal LD50Rabbit
LD50/dermal/rat = No information available
LC50/inhalation/rat = 21.3 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 Tox Oral = 202 mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 200 mg/kg

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = 3360 mg/kg

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

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = 21.3 mg/l (1-hr)

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms**Skin Contact:** Causes skin irritation.**Eye Contact:** Causes serious eye irritation.**Inhalation** Causes respiratory tract and mucous membrane irritation.**Ingestion** Toxic if swallowed. May cause digestive (gastrointestinal) tract irritation. It may affect the blood (methemoglobinemia-carboxyhemoglobin), respiration (cyanosis, dyspnea), behavior/central nervous system (convulsions, excitement, tetany, coma), cardiovascular system (hypotension), liver, and kidneys. May cause methemoglobinemia, (the formation of methemoglobin in the blood which causes deficient oxygenation of the blood due to decreased available hemoglobin). Signs and symptoms of methemoglobinemia include shortness of breath, cyanosis (a bluish discoloration of the skin, lips, mucous membranes), mental status changes such as headache, mental impairment, fatigue, muscular weakness, exercise intolerance, lightheadedness, dizziness, incoordination, seizures, and loss of consciousness. 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.**Aspiration hazard** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Chronic Toxicity** Skin: Prolonged or repeated skin contact may cause dermatitis, an allergic skin reaction
Ingestion: Prolonged or repeated ingestion may affect the endocrine system (adrenal gland, thymus, thyroid, (thyroid hypofunction, goiter)), liver, kidneys, and metabolism (weight loss).**Sensitization:** No information available.**Mutagenic Effects:** May affect genetic material
Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects**Carcinogenic effects:** Not classifiable as to its carcinogenicity to humans.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Resorcinol	108-46-3	Group 3 - Not Classifiable - Monograph 71 [1999]	A4 Not Classifiable as a Human Carcinogen	No information	No information	No information	No information

		Supplement 7 [1987] Monograph 15 [1977]					
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ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)
Group 3 - Not classifiable as to its carcinogenicity 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: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.
STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.
Target Organs: Blood. Kidneys. Lungs. Liver. Respiratory system. Eyes. Skin. Central nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Resorcinol - 108-46-3

Freshwater Algae Data: 1.1 - 72 mg/L EC50 Chlorella pyrenoidosa 72 h
Freshwater Fish Species Data: 100 mg/L LC50 Oncorhynchus mykiss 96 h flow-through 1 53.4 mg/L LC50 Pimephales promelas 96 h 1 36 - 100 mg/L LC50 Pimephales promelas 96 h static 1 100 mg/L LC50 Pimephales promelas 96 h flow-through 1 34.7 mg/L LC50 Leuciscus idus 96 h static 1

Water Flea Data: 78 mg/L LC50 Daphnia magna 48 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: 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

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Resorcinol	108-46-3	None	None	None	U201

14. TRANSPORT INFORMATION

DOT

UN-No: UN2876
Proper Shipping Name: Resorcinol
Hazard Class: 6.1
Subsidiary Class: No information available
Packing group: III
Emergency Response Guide Number: 153
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: IB8, IP3, T1, TP33
Symbol(s): [DOT]: (R5) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 5000 pounds (2270 Kilograms).
Description: UN2876, Resorcinol, 6.1, III

TDG (Canada)

UN-No: UN2876
Proper Shipping Name: Resorcinol
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No Information available
Description: UN2876, Resorcinol, 6.1, III

ADR

UN-No: UN2876
Proper Shipping Name: Resorcinol
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Description: UN2876, Resorcinol, 6.1, III, ENVIRONMENTALLY HAZARDOUS

IMO / IMDG

UN-No: UN2876
Proper Shipping Name: Resorcinol
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No information available
EMS: F-A
Description: UN2876, Resorcinol, 6.1, III, Marine pollutant

RID

UN-No: UN2876
Proper Shipping Name: Resorcinol
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Description: UN2876, Resorcinol, 6.1, III, ENVIRONMENTALLY HAZARDOUS

ICAO

UN-No: UN2876
Proper Shipping Name: Resorcinol
Hazard Class: 6.1
Subsidiary Risk: No information available

Packing Group: III
Description: UN2876, Resorcinol, 6.1, III

IATA

UN-No: UN2876
Proper Shipping Name: Resorcinol
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 6L
Special Provisions No information available
Description: UN2876, Resorcinol, 6.1, III

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Resorcinol	108-46-3	Present ACTIV E	Present KE-02557	Present	Present (5)-5000	Present	Present	Present 203-585-2

U.S. Regulations

Resorcinol

- Massachusetts RTK: Present
- New Jersey RTK Hazardous Substance List: 1634
- 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:
5000 lb RQ
1 lb RQ
- Louisiana Reportable Quantity List for Pollutants: 5000lbfinal RQ
2270kgfinal RQ
- California Directors List of Hazardous Substances: Present

FDA - 21 CFR - Total Food Additives 177.1210

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	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Resorcinol	108-46-3	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	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
Resorcinol	108-46-3	5000 lb final RQ 2270 kg final RQ	None	None	None	None

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Resorcinol	108-46-3	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
Resorcinol
108-46-3 (100)

WHMIS 2015 Hazard Classification
Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.;
Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.; Skin sensitizers - Category 1: H317 May cause allergic skin reaction.

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

WHMIS 1988 Hazard Class

D1B Toxic materials
D2B Toxic materials

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 -
Resorcinol	1 %

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Resorcinol	108-46-3	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Resorcinol	108-46-3	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Resorcinol	108-46-3	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Resorcinol	108-46-3	Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (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 - acute hazard - Aquatic Acute 1: H400 Very toxic to aquatic life.604-010-00-1

EU - CLP (1272/2008)

R-phrase(s)

R22 - Harmful if swallowed.

R50 - Very toxic to aquatic organisms.

R36/38 - Irritating to eyes and skin.

S -phrase(s)

S 2 - Keep out of the reach of children.

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

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Resorcinol	108-46-3	Xn; R22 Xi; R36/38 N; R50	10%≤C Xn; R22	S: 2-26-61

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

Indication of danger:

Xn - Harmful.

Xi - Irritant.

N - Dangerous for the environment.

Xn



Xi



N

**16. OTHER INFORMATION**

Preparation Date: 06/10/2015
Revision Date: 06/28/2018
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