

SAFETY DATA SHEET

Preparation Date: 1/11/2018

Revision date 1/11/2019

Revision Number: G1

1. Identification

Product identifier

Product code: K1392
Product Name: KETOPROFEN, MICRONIZED, USP

Other means of identification

Synonyms: m-Benzoylhydratropic acid
 3-Benzoylhydratropic acid
 (+-)-3-Benzoyl-alpha-methylbenzeneacetic acid
 2-(m-Benzoylphenyl)propionic acid
 2-(3-Benzoylphenyl)propionic acid
 Hydratropic acid, m-benzoyl-, (+-)-
 Ketoprofen (+-)
 Ketoprofene/Ketoprofene
 Acide (benzoyl-3-phenyl)-2-propionique
 Ketoprofeno
 Ketoprofenum
 Propinoic acid, 2-(3-benzoylphenyl)-
CAS #: 22071-15-4
RTECS # UE7570000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Drug, 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: 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
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

Label elements

Danger

Hazard statements

Toxic if swallowed
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation



Hazards not otherwise classified (HNOC)

May be harmful if inhaled
May be harmful if in contact with skin

Other hazards

Not available

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
Wear eye/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

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.

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 INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED:

Rinse mouth

IF SWALLOWED: Rinse mouth.

Precautionary Statements - Storage

Store locked up

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Ketoprofen	22071-15-4	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. First aider needs to protect himself.
- Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
- Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.
- Inhalation:** Move to fresh air. If 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.
- 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**
- Toxic if swallowed
 - Causes serious eye irritation
 - Causes skin irritation
 - May cause gastritis
 - Dryness of mouth
 - Eructation (Belching)
 - Thirst
 - May cause abdominal pain, nausea, vomiting, diarrhea
 - Flatulence
 - May cause constipation
 - May cause loss of appetite
 - Skin rash
 - May cause an allergic skin reaction
 - Fever
 - Ingestion of larger amounts may cause effects to the central nervous system (e.g. dizziness, headache)
 - Somnolence
 - Insomnia
 - Confusion
 - Hallucinations
 - May cause personality and mood changes
 - Irregular heartbeat
 - Cardiac arrhythmias
 - Weak, rapid pulse or rapid heart rate (Tachycardia)
 - It may affect the kidneys
 - Visual disturbances
 - May cause metabolic acidosis
 - May affect respiration

Dyspnea (Shortness of breath and difficulty breathing)
May cause bleeding or ulceration from the stomach
Prolonged or repeated ingestion may affect behavior/central nervous system (symptoms similar to acute ingestion), metabolism (weight loss), and may cause kidney and liver damage. Metabolic acidosis/electrolyte abnormality in conjunction with acute renal failure may also occur.

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: 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 dioxide (CO₂). Carbon monoxide.

Specific hazards May be combustible at high temperatures.

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: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid dust formation. Ensure adequate ventilation. 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 Sweep up and shovel into suitable containers for disposal. Use appropriate tools to put the spilled material in a suitable chemical 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. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe dust. Do not ingest. 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:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:

Oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Ketoprofen	22071-15-4	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Ketoprofen	22071-15-4	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Ketoprofen	22071-15-4	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. 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:	Chemical resistant apron Gloves Long sleeved clothing
Respiratory protection:	Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. 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.	Color: White. Off-white.
Odor: Odorless.	Taste No information available.	Formula C16H14O3
Molecular/Formula weight (g/mole): 254.28 g/mol	Flammability (solid, gas) no data available	Flashpoint (°C/°F): 147°C/297°F
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): 92-97°C/197.6-206.6°F	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): 431°C/808°F	Bulk density: No information available	Density (g/cm3): 1.198
Specific gravity: No information available	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: Very slightly soluble in water Easily soluble in diethyl ether Easily soluble in acetone Freely soluble in Ethanol Freely soluble in Chloroform Very soluble in Methanol Soluble in Dichloromethane Soluble in Benzene Soluble in Alkalis Sparingly soluble in Dimethylformamide Soluble in ethyl acetate	

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

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:** Oxidizing agents**Hazardous decomposition products:** carbon oxides.**Other Information****Corrosivity:** Non-corrosive in presence of glass.**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**

Ketoprofen

CAS No 22071-15-4

LD50/oral/rat = 62400 µg/kg Oral LD50 Rat = 62.4 mg/kg Oral LD50 Rat**LD50/oral/mouse** = 360 mg/kg oral LD50 mouse**LD50/dermal/rabbit** = 2000 mg/kg dermal LD50 rabbit**LD50/dermal/rat** = No information available**LC50/inhalation/rat** = 1000 mg/L inhalation LC50 rat 8h**LC50/inhalation/mouse** = No information available**Other LD50 or LC50 information** = 1300 mg/kg oral LD50 guinea pig**Product Information****LD50/oral/rat** =**Value - Acute Tox** = 62.4 mg/kg**LD50/oral/mouse** =**Value - Acute Tox Oral** = 360 mg/kg**LD50/dermal/rabbit****Value - Acute Tox** = 2000 mg/kg**LD50/dermal/rat****Product code:** K1392**Product name:** KETOPROFEN,
MICRONIZED, USP**Page**

VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation. Skin contact may result in redness, pain, inflammation, itching, scaling, and/or blistering.

Eye Contact: Causes severe eye irritation and possible burns. Symptoms may include stinging, tearing, redness.

Inhalation May cause irritation of the respiratory tract and mucous membranes irritation.

Ingestion Toxic if swallowed. May cause gastrointestinal tract irritation and symptoms such as gastritis, dry mouth, eructation, stomatitis, salivation, thirst, abdominal pain, nausea, vomiting, dyspepsia, diarrhea, flatulence, constipation. Other symptoms may include increased or decreased appetite, purpuric rash, exfoliative dermatitis, photosensitivity, skin discoloration, alopecia, eczema, sweating, bullous rash, urticaria, pruritis, anaphylactoid reaction, allergic reaction, tinnitus, fever, chills, central nervous system effects (headache, dizziness, somnolence, depression, malaise, insomnia, nervousness, dreams, amnesia, confusion, vertigo, paresthesia, migraine, dysphoria, hallucination, nightmares, personality disorder, etc.), myalgia, heart palpitations, tachycardia, hypertension, congestive heart failure, peripheral vascular disease, vasodilation, arrhythmias, myocardial infarction, libido disturbances, metabolic acidosis, visual disturbances. It may also affect the kidneys (hematuria, renal failure, interstitial nephritis, nephrotic syndrome), and respiratory system (dyspnea, bronchospasm, hemoptysis, epistaxis, pharyngitis, rhinitis, laryngeal edema. Health effects for nonsteroidal anti-inflammatory drugs (NSAIDs): nausea, vomiting, diarrhea, constipation, heartburn, stomach/abdominal pain, black or tarry stools, inhibition of platelet aggregation, prolonged bleeding time/bruising, swelling, sores/ulcers/white spots on lips and mouth, sweating, bluish colored skin, insomnia, mood/mental/personality changes, confusion, dizziness/drowsiness, headache, analgesia, itching, rash, weight gain/loss, vision and speech problems, ringing in the ears, tremors, difficulty breathing, increased heart rate or palpitations. Delayed effects may include gastrointestinal ulceration or bleeding, hypertension, kidney impairment, decreased urine output, interstitial nephritis, blood disorders, cardiovascular thrombotic events, stroke, congestive heart failure, fluid retention and edema, other central nervous system effects (coma, convulsions, seizures, somnolence, analgesia, depression, anxiety, fatigue). NSAIDs may also cause serious adverse skin reactions such as exfoliative dermatitis, Stevens-Johnson Syndrome, and toxic epidermal necrosis, and may affect the liver (borderline elevations of one or more liver tests).

Aspiration hazard No information available.

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

Chronic Toxicity Prolonged or repeated ingestion may cause gastrointestinal bleeding, buccal

necrosis, ulcerative colitis, melena, fecal occult blood, peptic ulcer, intestinal ulceration, dysphagia, gastric ulcer, gastroenteritis, weight loss or weight gain, abnormal liver function tests, colitis, cholestatic jaundice, kidney damage (renal papillary necrosis and other abnormal renal pathology), renal failure, hematologic effects (agranulocytosis, anemia, hemolysis, purpura, thrombocytopenia, hypocoagulability). Prolonged or repeated ingestion may also cause allergic reactions in sensitive individuals as well as other symptoms similar that of acute ingestion.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Ketoprofen	22071-15-4	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

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

Reproductive toxicity No data is available

Reproductive Effects: No information available

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure respiratory system.

STOT - repeated exposure No information available.

Target Organs: No information available.

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 Do not re-use empty containers
Dispose of as unused product.

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Ketoprofen	22071-15-4	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN2811
Proper Shipping Name: Toxic solids, organic, n.o.s. (ketoprofen)
Hazard Class 6.1
Subsidiary Class No information available
Packing group: III
Emergency Response Guide Number 154
Marine Pollutant No data available
DOT RQ (lbs): No information available
Special Provisions IB8, IP3, T1, TP33
Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parentheses, in association with the basic description.
Description: UN2811, Toxic solids, organic, n.o.s. (Ketoprofen), 6.1, III

TDG (Canada)

UN-No: UN2811
Proper Shipping Name: Toxic solid, organic, n.o.s.
Hazard Class 6.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant No Information available
Description: UN2811, Toxic solid, organic, n.o.s. (Ketoprofen), 6.1, III

ADR

UN Number UN2811
Proper Shipping Name: Toxic solid, organic, n.o.s.
Transport hazard class(es) 6.1
Packing group III
Subsidiary Risk: No information available
Special Provisions 274, 614
Description: UN2811, Toxic solid, organic, n.o.s. (Ketoprofen), 6.1, III

IMDG

UN-No: UN2811
Proper Shipping Name: Toxic solids, organic, n.o.s. (ketoprofen)
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant No information available

EMS: F-A
Special Provisions 223, 274
Description UN2811, Toxic solid, organic, n.o.s. (Ketoprofen), 6.1, III

RID

UN Number UN2811
Proper Shipping Name: Toxic solid, organic, n.o.s.
Transport hazard class(es) 6.1
Subsidiary Risk: No information available
Packing group III
Special Provisions 274, 614
Description: UN2811, Toxic solid, organic, n.o.s. (Ketoprofen), 6.1, III

ICAO (air)

UN-No: UN2811
Proper Shipping Name: Toxic solid, organic, n.o.s.
Hazard Class 6.1
Subsidiary Risk: No information available
Packing Group: III
Description: UN2811, Toxic solid, organic, n.o.s. (Ketoprofen), 6.1, III
Special Provisions A3, A5

IATA

UN Number UN2811
Proper Shipping Name: Toxic solid, organic, n.o.s.
Transport hazard class(es) 6.1
Subsidiary Risk: No information available
Packing group III
Precautionary Statements - Response 6L
Special Provisions No information available
Description: UN2811, Toxic solid, organic, n.o.s. (Ketoprofen), 6.1, III

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
<i>Ketoprofen</i>	22071-15-4	Present	Present KE-02767	Present	Not present	Not listed	Present	Present 244-759-8

U.S. Regulations

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)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>Ketoprofen</i>	22071-15-4	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Ketoprofen	22071-15-4	None	None	None	None	None

U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Ketoprofen	22071-15-4	Not Applicable	Not Applicable

Canada

WHIMIS 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)
Ketoprofen	22071-15-4	Not Listed	Present

Component	CAS No	CEPA Schedule I - Toxic Substances
Ketoprofen	22071-15-4	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Ketoprofen	22071-15-4	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Ketoprofen	22071-15-4	No information

EU - CLP (1272/2008)

R-phrase(s)

R25 - Toxic if swallowed

R36/37/38 - Irritating to eyes, respiratory system and skin

S -phrase(s)

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

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)

S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

S 1/2 - Keep locked up and out of the reach of children.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Product code: K1392

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Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Ketoprofen	22071-15-4		No information	

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

Indication of danger:

T - Toxic

Xi - Irritant

T



Xi



16. OTHER INFORMATION

Preparation Date: 1/11/2018
Revision date 1/11/2019
Prepared by: Roumann Pangilinan

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