

SAFETY DATA SHEET

M49030 - ROW - EN



INDSPEC Chemical Corporation

A subsidiary of Occidental Petroleum Corporation

SODIUM SULFITE, COMMERCIAL ANHYDROUS

SDS No.: M49030

Rev. Date: 25-Aug-2015

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification:

INDSPEC Chemical Corporation
Subsidiary of Occidental Petroleum Corporation
5005 LBJ Freeway
P.O. Box 809050
Dallas, Texas 75380-9050

Manufacturing Address:

INDSPEC Chemical Corporation
Subsidiary of Occidental Petroleum Corporation
133 Main Street
Petrolia, Pennsylvania 16050
USA
Information: (+1) 412-826-3666

24 Hour Emergency Telephone Number(s):

1-800-733-3665 or 1-972-404-3228 (USA); CHEMTREC (within USA and Canada): 1-800-424-9300; CHEMTREC (outside USA and Canada): +1 703-527-3887; CHEMTREC Contract No: CCN16186; MEDICAL EMERGENCIES: 1-800-456-7566

To Request an SDS:

MSDS@oxy.com or 1-972-404-3245

Customer Service:

1-800-752-5151 or 1-972-404-3700

Product Identifier:

SODIUM SULFITE, COMMERCIAL ANHYDROUS

Product No.

84-11

Synonyms:

SODIUM SULFITE, SODIUM SULFITE ANHYDROUS

Product Use:

Paper pulping, Anti-chlor, Corrosion inhibitor

Uses Advised Against:

Not for Food Use

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Chemical Family: Inorganic Salt

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Color: Light pink, Brown
Physical state: Solid
Appearance: Powder
Odor: Odorless

Signal Word: **DANGER**

MAJOR HEALTH HAZARDS: MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED. MAY CAUSE SKIN ALLERGY. MAY CAUSE MILD EYE AND SKIN IRRITATION. ALLERGIC REACTIONS MAY OCCUR AFTER INGESTION, SKIN CONTACT, OR INHALATION.

PRECAUTIONARY STATEMENTS: Avoid breathing dust. In case of inadequate ventilation wear respiratory protection. Do not ingest. Avoid prolonged or repeated contact.

ADDITIONAL HAZARD INFORMATION: Sulfite-sensitive people who inhale or ingest this material may experience a severe allergic reaction. Good hygiene and safety practices should be used when handling and working with this material. Good hygiene practices include but are not limited to: wearing suitable gloves and/or eye protection; washing hands and affected skin immediately after handling, before breaks, and at the end of the workday; regularly cleaning work area and clothing; etc.

GHS CLASSIFICATION:

GHS: SENSITIZATION HAZARD:	Respiratory Sensitizer Category 1 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
GHS: ACUTE TOXICITY - ORAL:	Not classified as acutely toxic for oral exposure

GHS SYMBOL:
Health hazard

**GHS SIGNAL WORD:** **DANGER**

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GHS HAZARD STATEMENTS:**GHS - Health Hazard Statement(s)**

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

GHS Precautionary Statement(s) - Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P284 - In case of inadequate ventilation, wear respiratory protection

GHS Precautionary Statement(s) - Response

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

GHS Precautionary Statement(s) - Storage

There are no Precautionary Statement(s) - Storage phrases assigned

GHS Precautionary Statement(s) - Disposal

P501 - Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations

Additional Hazard Information

Sulfite-sensitive people who inhale or ingest this material may experience a severe allergic reaction

See Section 11: TOXICOLOGICAL INFORMATION**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Synonyms:** SODIUM SULFITE, SODIUM SULFITE ANHYDROUS

Contains SODIUM SULFITE

Component	Percent [%]	CAS Number
SODIUM SULFITE	90-95	7757-83-7
SODIUM SULFATE	5-10	7757-82-6

SECTION 4. FIRST AID MEASURES**INHALATION:** If this material is inhaled and breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: call a POISON CENTER or doctor/physician. If significant breathing problems occur, contact emergency services immediately.**SKIN CONTACT:** In the case of contact with skin, flush skin with plenty of water. If irritation persists, get medical advice/attention.**EYE CONTACT:** If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

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INGESTION: May be harmful if swallowed. If you feel unwell, contact a poison center or doctor/physician.

Most Important Symptoms/Effects (Acute and Delayed) :

Acute Symptoms/Effects: Listed below.

Inhalation (Breathing): Respiratory System Effects: May cause minor upper airway irritation, may cause cough, redness of mouth and upper airways, wheezing and shortness of breath. It can produce anaphylaxis or other hypersensitivity in some sensitized individuals. May cause asthmatic reaction in sensitized individuals.

Skin: Skin contact may cause redness, or mild skin irritation. May also cause rash, hives, welts, itching, swelling.

Eye: Eye contact may cause slight eye irritation and redness to the eyelids, conjunctiva, and cornea.

Ingestion (Swallowing): Ingesting this material may cause gastric irritation. Very large sulfite doses may cause intestinal colic and diarrhea, circulatory disturbances, and central nervous system depression. When ingested, sulfite-sensitive individuals may experience a severe allergic reaction.

Delayed Symptoms/Effects:

- Respiratory System Effects: Prolonged or repeated inhalation of this material may cause bronchitis, with cough, phlegm, and/or shortness of breath. It can cause an asthma-like allergy or other hypersensitivity reactions such as chest tightness, angioedema, bronchoconstriction, flushing, diaphoresis, urticarial, cause shortness of breath, wheezing, cough, and/or chest tightness
- Repeated and prolonged skin contact may cause a dermatitis
- Hours after exposure, skin contact may cause rash, hives, welts, itching, swelling
- Prolonged or repeated ingestion may cause allergic effects in the respiratory system and skin

Interaction with Other Chemicals Which Enhance Toxicity: None known.

Medical Conditions Aggravated by Exposure: Sulfite-sensitive people who inhale or ingest this material may experience a severe allergic reaction. May aggravate respiratory system disorders such as asthma, reactive airways disease, and other breathing disorders.

Protection of First-Aiders: Do not breathe dust. Avoid contact with skin and eyes. Do not ingest. Use personal protective equipment. Refer to Section 8 for specific personal protective equipment recommendations. At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission.

Notes to Physician: There is no antidote. Treat symptomatically. Treat symptoms with supportive care. Concentrated solutions can be significant irritants. With ingestion, gastric irritation may occur, partly due to liberation of sulfurous acid; however, sulfates are eventually formed which are poorly absorbed and not very toxic. Very large sulfite doses may cause intestinal colic and diarrhea, circulatory disturbance, and central nervous system depression. Some individuals develop allergic or allergy-like reactions. Individuals with asthma are generally more susceptible. Some sulfite solutions can liberate sulfur dioxide in sufficient quantities to cause or exacerbate asthma. Skin irritation and allergic contact dermatitis have been reported.

SECTION 5. FIRE-FIGHTING MEASURES

Fire Hazard: Negligible fire hazard.

Extinguishing Media: Use extinguishing agents appropriate for surrounding fire.

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Fire Fighting: Wear complete fire service protective equipment, including full-face MSHA/NIOSH approved self-contained breathing apparatus. Use water to cool fire-exposed container/structure/protect personnel. Water or foam may cause frothing if product is heated above 93 °C (200 °F).

Hazardous Combustion Products: Oxides of sulfur fumes emitted when heated to decomposition

Sensitivity to Mechanical Impact: Not sensitive.

Sensitivity to Static Discharge: Not sensitive.

Lower Flammability Level (air): Not flammable

Upper Flammability Level (air): Not flammable

Flash point: Not flammable

Auto-ignition Temperature: Not applicable

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid breathing dust. Always use good hygiene measures. Avoid contact with skin and eyes. Wear appropriate personal protective equipment recommended in Section 8 of the SDS. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product.

Methods and Materials for Containment and Cleaning Up:

Contain spill. Use methods to minimize generation of dust. Shovel back into original dry container or waste receptacle. Use vacuum or wet mop to clean up dust. Flush area with water. Contain runoff from fire control and dilution water.

Environmental Precautions:

Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate regulatory agencies.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid breathing dust. Avoid prolonged or repeated breathing of dusts. Use methods to minimize generation of dust. Handle in accordance with good industrial hygiene and safety practice. Avoid prolonged or repeated contact with skin or eyes. Wash thoroughly after handling. Do not ingest. When using, do not eat, drink or smoke. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS.

Safe Storage Conditions:

Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Store in a cool, dry, well-ventilated area. Protect from physical damage. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

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Incompatibilities/ Materials to Avoid:

Contact with strong acids liberates sulfur dioxide

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Regulatory Exposure Limit(s): As listed below.

Component	Philippines OELs	Japan OELs	OSHA Final PEL TWA	OSHA Final PEL STEL	OSHA Final PEL Ceiling
Particles Not Otherwise Regulated (PNOR) 00-00-001	-----	-----	15 mg/m ³ (Total) 5 mg/m ³ (Respirable)	-----	-----

OEL: Occupational Exposure Limit; OSHA: United States Occupational Safety and Health Administration;
 PEL: Permissible Exposure Limit; TWA: Time Weighted Average; STEL: Short Term Exposure Limit

Non-Regulatory Exposure Limit(s): As listed below

Component	CAS Number	ACGIH TWA	ACGIH STEL	ACGIH Ceiling	OSHA TWA (Vacated)	OSHA STEL (Vacated)	OSHA Ceiling (Vacated)
Particulates Not Otherwise Specified (PNOS)	Not Assigned	10 mg/m ³ (Inhalable) 3 mg/m ³ (Respirable)	-----	-----	-----	-----	-----

- The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemicals, physical agents, and biological exposure indices.

OEL: Occupational Exposure Limit; OSHA: United States Occupational Safety and Health Administration;
 PEL: Permissible Exposure Limit; TWA: Time Weighted Average; STEL: Short Term Exposure Limit

Additional Advice:

Good hygiene and safety practices should be used when handling and working with this material. Good hygiene practices include but are not limited to: wearing suitable gloves and/or eye protection; washing hands and affected skin immediately after handling, before breaks, and at the end of the workday; regularly cleaning work area and clothing; etc.

ENGINEERING CONTROLS:

Provide local exhaust ventilation where dust may be generated. Provide sufficient general/local exhaust ventilation in pattern/volume to control inhalation exposures below applicable exposure limits and to keep area dust levels below explosive dust concentrations. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

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Eye Protection: Use good hygiene practices when handling this material. Wear safety glasses with side-shields. If eye contact is likely, wear chemical resistant safety goggles and/or face-shield when appropriate.

Skin and Body Protection: As a good hygiene practice, wear protective clothing to minimize skin contact such as standard industrial work clothes, coveralls, safety footwear. Contaminated clothing should be removed and laundered before reuse.

Hand Protection: As a good hygiene practice, wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

Respiratory Protection: An approved respirator with high efficiency particulate air filters / cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. The added protection of a full face-piece respirator is required when visible dusty conditions are encountered and eye irritation may occur. A respiratory protection program that meets applicable regulatory requirements must be followed whenever workplace conditions warrant use of a respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Powder
Color:	Light pink, Brown
Odor:	Odorless
Odor Threshold [ppm]:	No data available.
Molecular Formula:	Na ₂ SO ₃
Chemical Family:	Inorganic Salt
Decomposition Temperature:	Decomposes @ 600 °C
Boiling Point/Range:	Not applicable to solids
Freezing Point/Range:	Not applicable to solids.
Melting Point/Range:	Decomposes @ 600 °C
Vapor Pressure:	Not applicable
Vapor Density (air=1):	Not applicable
Relative Density/Specific Gravity (water=1):	2.6
Water Solubility:	Appreciable
pH:	9-10 (10% solution)
VOC Content (%):	No data available
Volatility:	0%
Evaporation Rate (ether=1):	Not applicable
Partition Coefficient (n-octanol/water):	Water soluble
Flash point:	Not flammable
Flammability (solid, gas):	Not flammable
Lower Flammability Level (air):	Not flammable
Upper Flammability Level (air):	Not flammable
Auto-ignition Temperature:	Not applicable
Viscosity:	Not applicable to solids

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SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal temperatures and pressures.**Chemical Stability:** Stable at normal temperatures and pressures.**Possibility of Hazardous Reactions:**

Liberates sulfur dioxide in the presence of strong acids.

Conditions to Avoid:

(e.g., static discharge, shock, or vibration) -. None known.

Incompatibilities/ Materials to Avoid:

Contact with strong acids liberates sulfur dioxide.

Hazardous Decomposition Products: Oxides of sulfur fumes emitted when heated to decomposition**Hazardous Polymerization:** Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

IRRITATION DATA: As listed below**Standard Draize (Eye):** No eye injury @ 24 hrs. (Rabbit)**Standard Draize (Skin):** No skin irritation @ 24hrs. (Rabbit)**TOXICITY DATA:****PRODUCT TOXICITY DATA:** SODIUM SULFITE, COMMERCIAL ANHYDROUS

LD50 Oral: 5660 mg/kg (Rat)	LD50 Dermal: >16,000 mg/kg (Rabbit)	LC50 Inhalation: No data available
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COMPONENT TOXICITY DATA:**Note:** The component toxicity data is populated by the LOLI database and may differ from the product toxicity data given.

Component	LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
SODIUM SULFITE 7757-83-7	820 mg/kg (Rat)	-----	22 mg/L (1 hr-Rat)
SODIUM SULFATE 7757-82-6	10000 mg/kg (Rat)	-----	-----

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POTENTIAL HEALTH EFFECTS:

- Eye contact:** May cause mild eye irritation. May cause redness of to the eyelids, conjunctiva, and cornea.
- Skin contact:** May cause mild skin irritation. May also cause rash, hives, welts, itching, swelling hours after exposure.
- Inhalation:** Sulfite-sensitive individuals, upon inhalation of this product, may experience a severe allergic reaction. Inhalation of this material can cause an asthma-like allergy or other hypersensitivity reactions such as chest tightness, angioedema, bronchoconstriction, flushing, diaphoresis, urticarial, tachycardia, hypotension, and rarely anaphylaxis in sensitized individuals. Future exposures may cause shortness of breath, wheezing, cough, and/or chest tightness.
- Ingestion:** Ingestion of this material may cause gastrointestinal irritation, nausea, vomiting, diarrhea, abdominal pain. Ingesting extremely large amounts may cause intestinal colic and diarrhea, affect behavior/central nervous system, cause circulatory disturbances, and may produce central nervous system depression. Sulfite-sensitive individuals may experience a severe allergic reaction.
- Chronic Effects:** Prolonged or repeated inhalation may cause bronchitis with cough, phlegm, and/or shortness of breath. Repeated or prolonged skin contact may result in dermatitis. Prolonged or repeated ingestion may cause allergic effects in the respiratory system and skin.

SIGNS AND SYMPTOMS OF EXPOSURE:

- Inhalation (Breathing):** Respiratory System Effects: May cause minor upper airway irritation, may cause cough, redness of mouth and upper airways, wheezing and shortness of breath. It can produce anaphylaxis or other hypersensitivity in some sensitized individuals. May cause asthmatic reaction in sensitized individuals.
- Skin:** Skin contact may cause redness, or mild skin irritation. May also cause rash, hives, welts, itching, swelling.
- Eye:** Eye contact may cause slight eye irritation and redness to the eyelids, conjunctiva, and cornea.
- Ingestion (Swallowing):** Ingesting this material may cause gastric irritation. Very large sulfite doses may cause intestinal colic and diarrhea, circulatory disturbances, and central nervous system depression. When ingested, sulfite-sensitive individuals may experience a severe allergic reaction.

TOXICITY:

It is unlikely that any single mechanism underlies all reactions to sulfite. The allergic reactions to sulfite are not readily classified. Inhalation of sulfur dioxide formed from sulfites in an acidic environment, such as the stomach, may explain some of the respiratory symptoms.

Interaction with Other Chemicals Which Enhance Toxicity: None known.

GHS HEALTH HAZARDS:

GHS: ACUTE TOXICITY - ORAL: Not classified as acutely toxic for oral exposure.

Skin Absorbent / Dermal Route? No.

GHS: SENSITIZATION HAZARD: Respiratory Sensitizer Category 1 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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GHS: CARCINOGENICITY:

Not classified as a carcinogen per GHS criteria. This product is not classified as a carcinogen by NTP, IARC, or OSHA.

OTHER HAZARDS:

Sulfite-sensitive people who inhale or ingest this material may experience a severe allergic reaction.

SECTION 12. ECOLOGICAL INFORMATION

Product Information:

Sodium sulfite was the test material used in the ecological studies.

ECOTOXICITY DATA:

Fish Toxicity:

Fish: 239,000 ppb TLm (96 hr.)

Benthic invertebrate: 789,000 ppb TLm (96 hr.)

FATE AND TRANSPORT:

PERSISTENCE: BOD: 0.12 lb./lb.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from material:

Reuse or recycle if possible. This material is not a listed hazardous waste nor does it exhibit any of the hazard characteristics. Dispose of in accordance with federal, state and local regulations.

Container Management:

Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

SECTION 14. TRANSPORT INFORMATION

LAND TRANSPORT

U.S. DOT 49 CFR 172.101:

Status - DOT: Not regulated

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

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Status: Not regulated**LAND TRANSPORT (RID):****Status - RID:** Not Regulated**LAND TRANSPORT (ADR):****Status - ADR:** Not Regulated**MARITIME TRANSPORT (IMO / IMDG)****Status - IMO / IMDG:** Not Regulated**AIR TRANSPORT (ICAO / IATA) :****Status - ICAO/IATA:** Not Regulated**SECTION 15. REGULATORY INFORMATION****International Inventory Status:****Australian Chemical Inventory:**

Component	AICS:	Australia - Standard for the Uniform Scheduling of Drugs and Poisons
SODIUM SULFITE 7757-83-7	Listed	Not Listed
SODIUM SULFATE 7757-82-6	Listed	Not Listed

China Chemical Inventory:

Component	IECS
SODIUM SULFITE 7757-83-7	Listed
SODIUM SULFATE 7757-82-6	Listed

European Union

Component	EU - NLPL	ELINCS	European Union Inventory: EINECS
SODIUM SULFITE 7757-83-7	Not Listed	Not Listed	231-821-4

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SODIUM SULFATE 7757-82-6	Not Listed	Not Listed	231-820-9
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Japan Chemical Inventory:

Component	ENCS	ISHL
SODIUM SULFITE 7757-83-7	(1)-502	Listed
SODIUM SULFATE 7757-82-6	(1)-501	Listed

Korean Chemical Inventory:

Component	KECL
SODIUM SULFITE 7757-83-7	KE-31612
SODIUM SULFATE 7757-82-6	KE-31609

New Zealand Chemical Inventory:

Component	NZIOC
SODIUM SULFITE 7757-83-7	Listed
SODIUM SULFATE 7757-82-6	Listed

Philippines - Priority Chemical List:

Component	PICCS:
SODIUM SULFITE 7757-83-7	Listed
SODIUM SULFATE 7757-82-6	Listed

Component	TSCA Inventory	TSCA 12(b)	TSCA-Section 5
SODIUM SULFITE 7757-83-7	Listed	Not Listed	Not Listed
SODIUM SULFATE 7757-82-6	Listed	Not Listed	Not Listed

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Canadian Chemical Inventory:

Component	DSL	NDSL
SODIUM SULFITE 7757-83-7	Listed	Not Listed
SODIUM SULFATE 7757-82-6	Listed	Not Listed

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WHMIS - Classifications of Substances:

- D2A - Poisonous and Infectious Material; Materials causing other toxic effects - Very toxic material
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SECTION 16. OTHER INFORMATION

Prepared by: OxyChem Corporate HESS - Product Stewardship**Country Compliance Statements**

- Brazil: This material safety data sheet has been prepared according to Brazilian legislation and ABNT NBR 14725:2009
- China: Prepared in accordance with GB/T 16483 & GB/T 17519

HMIS: (SCALE 0-4) (Rated using National Paint & Coatings Association HMIS: Rating Instructions, 2nd Edition)**Health Rating:** 1**Flammability Rating:** 0**Reactivity Rating:** 0**Health Rating:** 1**Flammability:** 0**Reactivity Rating:** 0**Reason for Revision (ROW):**

- Authored safety data sheet using the WERCS software
- New SDS format

IMPORTANT: The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and INDSPEC Chemical Corporation assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local or foreign laws.

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees.

End of Safety Data Sheet