

MIAMI PRODUCTS & CHEMICAL CO.

SAFETY DATA SHEET

SDS ID: SA2
Revision Date: June 24, 2015
Revision No.: 1

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

GHS Product identifier:	Sanygen 3-In-1 Algaecide and Sanygen Winterizing Solution
Other means of identification:	Item codes: S-A2-04; S-W1-02
Synonyms:	Quaternary ammonium algaecide
Recommended use:	Swimming pool algaecide.
Restriction on Use:	None known.
Manufacturer:	Address: Miami Products & Chemical Co. 520 Lonoke St. Dayton, OH 45403 Tel: (800) 776-1313 Fax: (937) 253-1559
24 Hour Emergency Telephone Number:	CHEMTREC: (800) 424-9300 within the United States CHEMTREC: (703) 527-3887 if international CHEMTREC Contract No: CCN14419

SECTION 2: HAZARD IDENTIFICATION

OSHA REGULATORY STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Classification in accordance with 29 CFR 1910 (GHS HCS)

Flammable liquids	Category 3
Acute toxicity, oral	Category 5
Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1

GHS label elements, including precautionary statements



Pictogram(s):

Signal Word: DANGER

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GHS Hazard Statements:

Physical hazard statements: H226: Flammable liquid and vapour.

Health hazard statements: H303: May be harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.

Environmental hazard Statements: None known.

GHS Precautionary Statements:

General Precautionary Statements: P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.

Prevention Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dusts or mists.
P264: Wash all affected areas thoroughly after handling.
P280: Wear protective gloves/clothing and eye/face protection.

Response Precautionary Statements: P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P312: Call a POISON CENTER or physician if you feel unwell.
P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P310: Immediately call a POISON CENTER or physician.
P363: Wash contaminated clothing before reuse.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378: In case of fire: Use water fog, dry chemical powder, foam, or carbon dioxide (CO₂) for extinction.
P321: Specific treatment (see First Aid information on product label and/or Section 4 of the SDS).

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Storage Precautionary Statements: P405: Store locked up.
P403+P235: Store in a well-ventilated place. Keep cool.

Disposal Precautionary Statements: P501: Dispose of contents/container in accordance with local, regional, and national regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS: None identified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Common Chemical Name	Percent (%)	CAS Number
Alkyl Dimethyl Benzyl Ammonium Chloride	9.92-10.0	53516-76-0
Quaternary Ammonium Compounds, Benzyl-,di-C12-18-alkylmethyl, Chlorides	0.02-0.06	73049-75-9
2-propanol	1 - <2	67-63-0

SECTION 4: FIRST-AID MEASURES

General advice: If in immediate danger, move out of the affected areas. Show this Safety Data Sheet (SDS) to the attending medical personnel and make sure they are aware of the material(s) involved.

Inhalation: Move the effected person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration. If breathing is difficult, give oxygen. Get medical attention for any irritation or discomfort.

Skin Contact: Take off contaminated clothing. Wash with plenty of soap and water for at least 15 minutes. Get medical attention if irritation develops and persists. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye Contact: Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. After the first 5 minutes of flushing remove contact lenses, if present and easy to do, and continue rinsing. If irritation persists, repeat flushing. Seek medical attention immediately.

Ingestion: Call a physician or poison control center immediately. Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, keep the victims head low so that stomach content doesn't get into the lungs.

Most Important Symptoms and Effects (Both Acute and Delayed): Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Medical Conditions Aggravated by Exposure: None known.

Protection of First-Responders: Protect yourself by avoiding contact with this material. Avoid contact with skin and eyes. Do not breathe mist and/or vapors. Do not ingest. Use personal protective equipment (PPE). Refer to Section 8 for specific personal protective equipment recommendations.

Notes to Physician: Treatment is symptomatic and supportive. THERMAL BURNS: Flush with water immediately. While flushing, remove clothes which do NOT adhere to the affected area. Call an ambulance. Continue flushing during transport to hospital. CHEMICAL BURNS: Flush with water immediately. While flushing, remove clothes which do NOT adhere to the affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use extinguishing agents appropriate for the surrounding fire. Suitable media includes water spray, foam, carbon dioxide, and dry chemical. Do NOT use a water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Vapors may form explosive mixtures with air. Vapors may travel considerable distances to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective actions for fire-fighters: Keep unnecessary people away, isolate the hazard area and deny entry. Move containers from the fire area if you can do so without risk. Fight fire for other material that is burning. Water should be applied in large quantities as fine spray. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Wear protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Remove all ignition sources (no smoking, flares, sparks, or flames in the immediate area). Use appropriate safety equipment. Do not breathe mists or vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For additional information, refer to Section 8, Exposure Controls/Personal Protection. Refer to Section 7, Handling and Storage, for additional precautionary measures.

Environmental precautions: Block any potential routes to water systems. Prevent spills from entering the soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: LARGE SPILLS: Stop the flow of material, if you can do so without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Make sure that this disposal container is properly labeled with its contents. Prevent product from entering drains. Following product recovery, flush area with copious amounts of water. SMALL SPILLS: Absorb spilled material with vermiculite, earth, sand or other non-combustible material and transfer to containers for later disposal. Make sure that this disposal container is properly labeled with its contents. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination by flushing the area with copious amounts of water.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Use air conveying/mechanical systems for bulk transfer to storage. Use approved respiratory protection when ventilation systems are not available. Do not get in eyes, on skin, or on clothing. Do not breathe mist or vapors. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wash all affected areas thoroughly after handling this product. Keep material out of lakes, stream, ponds and sewer drains. Do not handle, store or open near an open flame, sources of heat or ignition. Protect material from direct sunlight. General and local exhaust ventilation should be explosion-proof. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment.

Conditions for safe storage: Store this product in a cool, dry, well-ventilated area. Store in original container and keep this container tightly closed at all times when not in use. Store this product locked up and away from individuals unfamiliar with its use and hazards. Store this product in a well-ventilated area. Store at room temperature and avoid excessive heat and direct sunlight.

Incompatibilities/conditions to avoid: Heat, sparks, open flames and other ignition sources. Acids, strong oxidizing agents, chlorine, isocyanates.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit(s): As listed below.

Chemical Name	OSHA Exposure Limits	ACGIH TLV		NIOSH		
2-propanol (CAS 67-63-0)	PEL	980 mg/m ³	STEL	400 ppm	STEL	1225 mg/m ³
						500 ppm
	400 ppm	TWA	200 ppm	TWA	980 mg/m ³	
						400 ppm

Appropriate engineering controls: Where possible, provide general mechanical and/or local exhaust ventilation that is explosion-proof to prevent the release of airborne mist or vapors into the work environment. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to the work conditions. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower(s) must be available when handling this product.

Individual protection measures, such as personal protective equipment (PPE)

- Eye/face protection:** Appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.
- Skin protection:** For operations where hand and skin contact can occur, wear impervious clothing such as an apron, rubber boots, and chemical-resistant rubber gloves.
- Respiratory protection:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
- Thermal hazards:** Not applicable.
- General hygiene practices:** It is important to observe good personal hygiene measures, which should include washing immediately after handling this product and before eating, drinking, smoking, chewing gum, or using the toilet. Routinely wash work clothing to remove any residual contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Pink (3-in-1 Algaecide) or Orange (Winterizing Solution)
Odor	Almond
Odor threshold	No data available
pH	5.0-7.0
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	48.8° C (119.8° F)
Evaporation rate	No data available
Flammability limit – lower (%)	No data available
Flammability limit – upper (%)	No data available
Explosive limit – lower (%)	No data available
Explosive limit – upper (%)	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative density	0.97 (specific gravity)
Solubility(ies)	Completely miscible in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	106.25 cSt

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Under normal handling and storage conditions, this product is not reactive.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None known under conditions of normal use.

Conditions to avoid: Heat, sparks, open flames and other ignition sources. Avoid temperatures that exceed the flash point (See Section 9 Physical and Chemical Properties). Contact with incompatible materials.

Incompatible materials: Acidic compounds. Strong oxidizing agents. Isocyanates. Chlorine.

Hazardous decomposition products: None known.

Hazardous polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY DATA

Chemical Name	Method	Species	Dose
2-propanol (CAS 67-63-0)	LD ₅₀ (Dermal)	Rabbit	16,400 mg/kg
	LC ₅₀ (Inhalation-vapor)	Rat	> 10,000 ppm, 6 hr
	LD ₅₀ (Oral)	Rat	5,840 mg/kg
Alkyl Dimethyl Benzyl Ammonium Chloride (CAS 53516-76-0)	LD ₅₀ (Oral)	Unknown	430 mg/kg
	LD ₅₀ (Dermal)	Unknown	3,560 mg/kg
Quaternary Ammonium Compounds, Benzyl-, di-C12-18-alkylmethyl, Chlorides (CAS 73049-75-9)	LD ₅₀ (Oral)	Unknown	430 mg/kg
	LD ₅₀ (Dermal)	Unknown	3,560 mg/kg

Information on likely routes of exposure

Ingestion: Causes digestive tract burns. Harmful if swallowed.

Inhalation: May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact: Causes severe skin burns.

Eye contact: Causes serious eye damage.

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Symptoms related to the physical, chemical and toxicological characteristics: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Germ cell mutagenicity: No components of this product present at levels greater than or equal to 0.1% are identified as mutagenic or genotoxic.

Carcinogenicity

- IARC:** No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
- ACGIH:** No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP:** No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
- OSHA:** No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity – single exposure: Not classified.

Specific target organ toxicity – repeated exposure: Not classified.

Aspiration hazard: Not an aspiration hazard.

Chronic effects: Prolonged inhalation may be harmful.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY DATA

AQUATIC TOXICITY:

Chemical Name	Method	Species	Dose	Duration
2-propanol (CAS 67-63-0)	EC ₅₀	Daphnia	>10,000 mg/L	48 hours
	LC ₅₀	Bluegill (<i>Lepomis macrochirus</i>)	> 1,400 mg/L	96 hours
	Unknown	<i>Pimephales promelas</i>	9,640 mg/L	96 hours
Alkyl Dimethyl Benzyl Ammonium Chloride (CAS 53516-76-0)	LC ₅₀	Striped bass (<i>Morone saxatilis</i>)	0.5 mg/L	96 hours
	LC ₅₀	Bluegill (<i>Lepomis macrochirus</i>)	0.515 mg/L	Unknown
	NOEL	Daphnia	0.0042 mg/L	Unknown
Quaternary Ammonium Compounds, Benzyl-,di-C12-18-alkylmethyl, Chlorides (CAS 73049-75-9)	LC ₅₀	Bluegill (<i>Lepomis macrochirus</i>)	0.515 mg/L	Unknown
	NOEL	Daphnia	0.0042 mg/L	Unknown

Persistence and degradability: This product is expected to be readily biodegradable.

Bioaccumulative potential: Partition coefficient n-octanol/water (log kow) for 2-propanol is 0.05.

Mobility in soil: No data available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. Collect and reclaim or dispose in sealed containers at a licensed waste disposal site. This material and its container must be disposed of as a hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.

Waste from residues / unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. See Disposal methods.

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

U.S. DOT 49 CFR 172.101

This product is NOT regulated for non-bulk shipments; however, if a bulk shipment is being made, use the following United States Department of Transportation shipping information:

UN NUMBER:	UN 2920
UN PROPER SHIPPING NAME:	Corrosive liquids, flammable, n.o.s. (Quaternary Ammonium Compound, isopropanol)
TRANSPORT HAZARD CLASS:	8
PACKING GROUP:	II
ENVIRONMENTAL HAZARDS:	None known.
REPORTABLE QUANTITY (RQ):	N/A
SPECIAL PRECAUTIONS FOR USER:	Read safety instructions, SDS and emergency procedures before handling.

NOTE: Certain shipping modes or package sizes may have exceptions from the transport regulations and may be classified as Consumer Commodity or Limited Quantity. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Section 12(b) Export Notification (40 CFR 707 Subpart D): Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4): 2-propanol (CAS 67-63-0) is listed.

SARA 304 Emergency Release Notification: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA):

Hazard categories: Immediate Hazard – Yes
Delayed Hazard – No
Fire Hazard – Yes
Pressure Hazard – No
Reactivity Hazard – No

SARA 302 Extremely hazardous substance: Not listed.

SARA 311/312 Hazardous chemical: No

SARA 313 (TRI reporting):

Chemical name	CAS No.	% by weight
2-propanol	67-63-0	1 - <2

U.S. STATE REGULATIONS

Right To Know State	Common Chemical Name	CAS No.
Massachusetts	2-propanol	67-63-0
Pennsylvania	2-propanol	67-63-0
New Jersey	2-propanol	67-63-0
Rhode Island	2-propanol	67-63-0

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

FIFRA REGULATIONS: Registered pesticide under 40 CFR 152.10, Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

FIFRA LABELING REQUIREMENTS: This chemical is a pesticide product registered by the United States Environmental Protection Agency (USEPA) and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels

of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

- FIFRA Signal Word – CAUTION
- Corrosive.
- Causes irreversible eye damage and skin irritation.
- Harmful if swallowed or absorbed through skin.
- Do not get into eyes, on skin or on clothing.
- Wear protective eyewear (goggles, safety glasses or face shield), protective clothing and rubber gloves.
- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove contaminated clothing and wash before reuse.
- This pesticide is toxic to fish and aquatic invertebrates.
- Do not mix with soap, anionic detergents or oxidizers.

SECTION 16: OTHER INFORMATION

SDS Preparation Date:	June 24, 2015
SDS Revision Date:	June 24, 2015
SDS Revision No.:	1

REASONS FOR REVISION:

- Updated SDS header
- Changed the SDS format to meet the GHS requirements of the revised 2012 OSHA HCS (29 CFR 1910.1200)
- Product identifier has been added or updated (See Section 1)
- Revised Hazards Identification information (See Section 2)
- Added GHS Information (See Section 2)
- Updated Composition/Information on Ingredients (See Section 3)
- Updated First-Aid Measures (See Section 4)
- Updated Fire Fighting Measures (See Section 5)
- Revised Accidental Release Measures (See Section 6)
- Revised Handling and Storage Recommendations (See Section 7)
- Updated Exposure Controls/Personal Protection (Section 8)
- Updated Physical and Chemical Properties (See Section 9)
- Updated Stability and Reactivity (Section 10)
- Updated Toxicological Information (Section 11)
- Updated Ecological Information (Section 12)
- Updated Disposal Considerations (See Section 13)
- Updated Regulatory Information (See Section 15)
- Added SDS Preparation Date, SDS Revision Date, and SDS Revision No. (See Section 16)
- Added "End of SDS Document" phrase
- Added a list of abbreviations that may have been used in the SDS

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ABBREVIATIONS (please note that not all abbreviations may appear on this SDS):

ACGIH = American Conference of Governmental Industrial Hygienist
CAS = Chemical Abstract Service
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
CFR = Code of Federal Regulations
DOT = Department of Transportation (United States)
DSL/NDSL = Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS = European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
EN = European Norm
EPCRA = Emergency Planning & Community Right to Know Act (1986)
EU = European Union
GHS = Global Harmonization System
HMIS = Hazardous Materials Information System
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IDLH = Immediately Dangerous to Life or Health
IMDG = International Maritime Dangerous Goods (Code)
ICAO = International Civil Aviation Organization
NFPA = National Fire Protection Association
NIOSH = National Institute for Occupational Safety and Health
N.O.S. = Not Otherwise Specified
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PBT = Persistent Bioaccumulative and Toxic
PEL = Permissible Exposure Limit;
pH = A measure of the acidity or alkalinity of a solution
PSM = Process Safety Management
RQ = Reportable Quantity
SARA = Superfund Amendments and Reauthorization Act
SDS = Safety Data Sheet
STEL = Short-Term Exposure Limit
STOT = Specific Target Organ Toxicity
TLV = Threshold Limit Value
TSCA = Toxic Substance Control Act
TWA = Time-weighted Average
UN = United Nations

DISCLAIMER: This SDS generally complies with the requirements set forth in 29 CFR 1910.1200 and Annex 5, Fifth Edition (2014) Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Miami- Products & Chemical Co. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Miami Products & Chemical Co. be responsible for damages of any nature whatsoever resulting from the use of, misuse or reliance upon information. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or any other nature are made hereunder with

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respect to information or the product to which information refers. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure its activities comply with federal, State, Provincial, and local laws and regulations.

The information contained in this SDS is subject to revision as additional knowledge, information, and experience is gained.

END OF SDS DOCUMENT