



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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Aldesan Microbiocide

Revision 1
Revision date 2020-02-26

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Aldesan Microbiocide
Product code	406040
Registration No.	90924-11-66171.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC8] Biocidal products (e.g. Disinfectants, pest control);
Description	Disinfectant.

1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshar Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com

1.4. Emergency telephone number

	24 hours: Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)
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Further information

Manufactured For:	Preserve International 944 Nandino Blvd. Lexington, KY 40511-1205 U.S.A. Preserve International is a wholly-owned subsidiary of Neogen Corporation.
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture


2.1.2. Classification - GHS	Flam. Liq. 3: H226; Acute Tox. 3: H301; Acute Tox. 3: H311; Skin Corr. 1B: H314; Skin Sens. 1: H317; Acute Tox. 4: H332; Muta. 2: H341; Carc. 1B: H350; STOT SE 1: H370;
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2.2. Label elements

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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	<p>Flam. Liq. 3: H226 - Flammable liquid and vapour. Acute Tox. 3: H301 - Toxic if swallowed. Acute Tox. 3: H311 - Toxic in contact with skin. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. Acute Tox. 4: H332 - Harmful if inhaled. Muta. 2: H341 - Suspected of causing genetic defects . Carc. 1B: H350 - May cause cancer . STOT SE 1: H370 - Causes damage to organs .</p>
Precautionary Statement: Prevention	<p>P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p>
Precautionary Statement: Response	<p>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep 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. P312 - Call a POISON CENTER/doctor/ media appropriate to the surrounding conditions /if you feel unwell. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse.</p>
Precautionary Statement: Storage	P403+P235 - Store in a well-ventilated place. Keep cool.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved waste disposal facility in accordance with local and national regulations.

2.3. Other hazards

Other hazards	Toxic to fish.
Further information	Read the entire label and follow all use directions, restrictions, and precautions.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Formaldehyde...% (Formaldehyde)	605-001-00-5	50-00-0	200-001-8		30 - 40%	Carc. 1B: H350; Muta. 2: H341; Acute Tox. 3: H331; Acute Tox. 3: H301; Skin Corr. 1B: H314; Skin Sens. 1: H317;
Methanol	603-001-00-X	67-56-1	200-659-6		1 - 10%	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT SE 1: H370;

Description

Concentrations listed are not product specifications.

Further information

Full text of Hazard Statements listed in this Section is provided in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.
Skin contact	Rinse immediately with plenty of water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye contact	Causes severe inflammation and may damage the cornea.
Skin contact	Causes skin burns.
Ingestion	Ingestion may cause nausea and vomiting. May cause oral mucosal irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. IF exposed or concerned: Get medical advice/attention. If medical advice is needed, have product container or label at hand.

Further information

Refer to product label for Agency-required text and for further information.

SECTION 5: Firefighting measures

5.1. Extinguishing media

In case of fire, use carbon dioxide (CO₂), Alcohol resistant foam, Dry chemical, Foam. Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes. Fire will produce dense black smoke. Vapor may travel considerable distance to source of ignition and flash back. Heat will increase pressure in sealed containers.

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5.3. Advice for firefighters

Flammable liquid and vapour. In case of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus and protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Flammable liquid. Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid sparks, flames, heat and sources of ignition. Ensure adequate ventilation of the working area. Use as appropriate: Protective equipment. Avoid prolonged or repeated exposure.

6.2. Environmental precautions

Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.

6.3. Methods and material for containment and cleaning up

Flammable liquid. Absorb with inert, absorbent material. Collect spillage. Transfer to suitable, labelled containers for disposal. Dispose of this material and its container to hazardous or special waste collection point. Do not contaminate water by cleaning of equipment or disposal of wastes. Clean with detergents. Avoid solvents.

6.4. Reference to other sections

See section 2, 8 & 13 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

All handlers MUST monitor Formaldehyde to ensure workplace safety.

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Use as appropriate: Protective clothing.

Read the entire label and follow all use directions, restrictions, and precautions.

7.2. Conditions for safe storage, including any incompatibilities

Flammable liquid and vapour. Contact with combustible material may cause fire. Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions.

7.3. Specific end use(s)

See Section 1.2 for further information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Values


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Exposure Limit Values

Formaldehyde...% (Formaldehyde)	ACGIH TLV TWA: - Notations: SEN; A2 OSHA PEL 8hr TWA mg m3: - NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: C 0.3 ppm OSHA PEL 8hr TWA ppm: - Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:
Methanol	ACGIH TLV TWA: 200 ppm Notations: Skin; BEI OSHA PEL 8hr TWA mg m3: 260 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: 250 ppm OSHA PEL 8hr TWA ppm: 200 Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:

8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Use as appropriate: Protective equipment.
Eye / face protection	Wear: Chemical safety goggles, Face shield.
Skin protection - Hand protection	Wear: Rubber gloves.
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Follow label instructions.
Occupational exposure controls	All handlers MUST monitor Formaldehyde to ensure workplace safety. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from food, drink and animal feed and/ or feed products. Provide chemical shower. Provide eye wash station.

Further information

	Refer to product label for additional PPE requirements and recommendations. Follow label instructions.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

State	Liquid
Color	Clear/Colorless
Odor	Pungent
Odor threshold	No data available
pH	3.5 - 4.5
Melting point	No data available
Freezing Point	No data available
Boiling point	No data available
Flash point	54 °C
Evaporation rate	No data available
Flammability limits	Not applicable.
Vapor pressure	No data available
Vapor density	No data available
Relative density	1.078 - 1.087
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	< 10 mPas (Cone & Plate)
Explosive properties	No data available
Oxidizing properties	No data available
Solubility	Soluble in water

9.2. Other information

VOC (Volatile organic compounds)	≈ 37 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal conditions.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
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10.4. Conditions to avoid

	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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10.5. Incompatible materials

	Contact with combustible material may cause fire. Keep away from oxidizing agents, Combustible materials.
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10.6. Hazardous decomposition products

	Formaldehyde.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Toxic in contact with skin and if swallowed. Harmful by inhalation.
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11.1. Information on toxicological effects

Skin corrosion/irritation	Causes skin burns.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people. May cause dermatitis.
Germ cell mutagenicity	Mutagen category 2.
Carcinogenicity	Carcinogen category 1. Listed by the International Agency for Research on Cancer (IARC) as a Group 1 substance: known human carcinogen. Listed in the National Toxicology Program (NTP) Report on Carcinogens as a known human carcinogen. Listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values as Group A2: suspected human carcinogen. Listed by the U.S. Occupational Safety and Health Administration (OSHA) as a known human carcinogen (29CFR1910.1003).
Reproductive toxicity	Adverse reproductive effects have been found in laboratory animals.
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes irritation of nose, throat and airway.
STOT-repeated exposure	Component(s) may cause damage to human organs based on animal data.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.

11.1.2. Mixtures

	See Section(s) 3 for further information.
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11.1.3. Hazard Information

	See Section(s) 2 and 3 for further information.
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11.1.4. Toxicological information

	No data available
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11.1.5. Hazard Class

	See Section(s) 2 and 14 for further information.
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11.1.6. Classification Criteria

	Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.
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11.1.7. Information on likely routes of exposure

	Eye contact. Skin contact. Inhalation. Ingestion.
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11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

	See Section(s) 4.2 for further information.
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11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

	See Section(s) 4.2 for further information.
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11.1.10. Interactive effects

	No data available.
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11.1.11. Absence of specific data

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11.1.11. Absence of specific data

<1% of this mixture consists of ingredients of unknown acute toxicity.

11.1.12. Mixture versus substance information

See Section(s) 3 for further information.

11.1.13. Other information

Caution - substance not yet fully tested.

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

Aldesan Microbiocide No data available

Methanol -0.77 log P

12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

No data is available on this product.

12.6. Other adverse effects

Toxic to fish.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of as special waste in compliance with local and national regulations.

Disposal methods

Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.

Disposal of packaging

Nonrefillable container. Do not reuse or refill this container.

If empty: Do not reuse this container. Place in trash or offer for recycling, if available.

If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

SECTION 14: Transport information

Hazard pictograms

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Hazard pictograms



14.1. UN number

UN2209

14.2. UN proper shipping name

FORMALDEHYDE SOLUTION

14.3. Transport hazard class(es)

DOT	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4. Packing group

Packing group III

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

DOT

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code F-A S-B

IATA

Packing Instruction (Cargo)	856
Maximum quantity	60 L
Packing Instruction (Passenger)	852
Maximum quantity	5 L

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
Chemical Inventories/Right-to-Know Lists:	Toxic Substances Control Act (TSCA): All ingredients listed or exempt. Massachusetts Right-to-Know Hazardous Substance List: Formaldehyde; Methanol. New Jersey Worker and Community Right to Know Act: Formaldehyde; Methanol. Pennsylvania Right to Know Law: Formaldehyde; Methanol. Rhode Island Right-to-Know General Law: Formaldehyde; Methanol.

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

****California residents please note****

WARNING: This product can expose you to chemicals, including Formaldehyde, CAS No. 50-00-0, which is/are known to the State of California to cause cancer, and Methanol, CAS No. 67-56-1 which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Formaldehyde...% (Formaldehyde)	Y	Y	Y 0.1	Y	N	Y	Y	Y 500	Y 100
Methanol	Y	Y	Y 1.0	Y	N	Y	N	N	N

Further information

Signal Word Label Precautions	This chemical is a pesticide product registered by the United States Environmental Protection Agency 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.
	DANGER. POISON.
	Keep out of reach of children. Hazards to humans and domestic animals. Corrosive. Causes eye damage and skin damage. May be fatal if swallowed. Methanol may cause blindness. Do not get in eyes, on skin, or on clothing. Avoid contamination of food or feedstuffs. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Avoid breathing vapor or spray mist. Wear respiratory protection. Wear goggles or face shield and rubber gloves when handling this product. All handlers MUST monitor Formaldehyde to ensure workplace safety.

SECTION 16: Other information

Other information

Revision	<p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none"> 1 - Description. 1 - Manufactured For:. 1 - Manufactured By:. 1 - Registration No. 2 - Other hazards. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Storage. 4 - Eye contact. 4 - Skin contact. 4 - Ingestion. 4 - Further information. 7 - 7.1. Precautions for safe handling. 8 - Occupational exposure controls. 8 - Respiratory protection. 8 - Skin protection - Hand protection. 8 - Eye / face protection. 8 - Skin protection - Other.
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Other information

9 - 9.1. Information on basic physical and chemical properties (Boiling point).
 9 - 9.1. Information on basic physical and chemical properties (Vapor pressure).
 9 - 9.1. Information on basic physical and chemical properties (Vapor density).
 9 - 9.1. Information on basic physical and chemical properties (Freezing Point).
 9 - 9.2. Other information (VOC (Volatile organic compounds)).
 9 - 9.2. Other information (Product Subcategory).
 10 - 10.6. Hazardous decomposition products.
 11 - 11.1.4. Toxicological information.
 11 - Acute toxicity.
 11 - Skin corrosion/irritation.
 11 - Respiratory or skin sensitization.
 11 - Germ cell mutagenicity.
 11 - Carcinogenicity.
 11 - Reproductive toxicity.
 11 - Serious eye damage/irritation.
 11 - STOT-single exposure.
 12 - 12.1. Toxicity.
 12 - 12.6. Other adverse effects.
 15 - FIFRA Signal Word.
 15 - FIFRA Warning.
 15 - Chemical Inventories/Right-to-Know Lists:.
 15 - Signal Word.
 15 - Label Precautions.
 16 - Maximum content of VOC.

Acronyms

ACGIH: American Conference of Governmental Industrial Hygienists.
 CAS No.: Chemical Abstracts Service.
 GHS: Globally Harmonized System.
 HCS 2012: Hazard Communication Standard (2012 revision).
 IATA: International Air Transport Association.
 ICAO: International Civil Aviation Organization.
 IMDG: International Maritime Dangerous Goods.
 LC: Lethal concentration.
 LD: Lethal dose.
 OEL: Occupational exposure limit.
 OSHA: U.S. Occupational Safety and Health Administration.
 PEL: Permissible Exposure Limit.
 UN: United Nations.
 US DOT: United States Department of Transportation.
 VOC: Volatile Organic Compound.
 WEL: Workplace Exposure Limit.

Text of Hazard Statements in Section 3

Acute Tox. 3: H301 - Toxic if swallowed.
 Acute Tox. 3: H311 - Toxic in contact with skin.
 Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
 Skin Sens. 1: H317 - May cause an allergic skin reaction.
 Acute Tox. 3: H331 - Toxic if inhaled.
 Muta. 2: H341 - Suspected of causing genetic defects .
 Carc. 1B: H350 - May cause cancer .
 Carc. 2: H351 - Suspected of causing cancer .
 Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
 STOT SE 1: H370 - Causes damage to organs .
 STOT SE 2: H371 - May cause damage to organs .

Maximum content of VOC

37 %.

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Further information

DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.

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