



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

Page 1/11

Prozap® Dairy Cattle Spray

Revision 3
Revision date 2020-01-30

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

1.1. Product identifier

Product name	Prozap® Dairy Cattle Spray
Product code	1576010

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

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC8] Biocidal products (e.g. Disinfectants, pest control);
Description	Liquid insecticide. Not for use in residential areas.

1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshler 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 By: Chem-Tech Ltd. 1006 Business Highway 5 Pleasantville, IA 50225 U.S.A. Chem-Tech Ltd. 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; Asp. Tox. 1: H304; Aquatic Acute 1: H400;
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2.2. Label elements

Prozap® Dairy Cattle Spray

Revision 3
Revision date 2020-01-30

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Flam. Liq. 3: H226 - Flammable liquid and vapour. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Aquatic Acute 1: H400 - Very toxic to aquatic life.
Precautionary Statement: Prevention	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/ . P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P331 - Do NOT induce vomiting.
Precautionary Statement: Storage	P403+P235 - Store in a well-ventilated place. Keep cool.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations, Follow label instructions

2.3. Other hazards

Other hazards	May be harmful if swallowed.
Further information	Read the entire label and follow all use directions, restrictions, and precautions.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Kerosine - unspecified - kerosine (petroleum), hydrodesulfurized (Kerosene/Jet fuels as total hydrocarbon vapor)	649-423-00-8	64742-81-0	265-184-9		40 - 50%	Asp. Tox. 1: H304;
Straight run kerosine - kerosine (petroleum) (Kerosene/Jet fuels as total hydrocarbon vapor)	649-404-00-4	8008-20-6	232-366-4		40 - 50%	Asp. Tox. 1: H304;
Dichlorvos (ISO) (Dichlorvos (DDVP))	015-019-00-X	62-73-7	200-547-7		0 - 0.5%	Acute Tox. 2: H330; Acute Tox. 3: H311; Acute Tox. 3: H301; Skin Sens. 1: H317; Aquatic Acute 1: H400;
Piperonyl butoxide		51-03-6	200-076-7		0 - 0.5%	Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
Pyrethrins (Pyrethrum)		8003-34-7	232-319-8		0 - 0.5%	Acute Tox. 4: H302+H312+H332; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

Description

Prozap® Dairy Cattle Spray

Revision 3
Revision date 2020-01-30

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	DO NOT INDUCE VOMITING unless advised to do so by a doctor. 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	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

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.
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Further information	
	Refer to product label for FIFRA-required First Aid directions.
NOTE TO PHYSICIAN OR VETERINARIAN	Atropine is the specific therapeutic antagonist of choice against parasympathetic nervous stimulation. Refer to product label and/or package insert for additional information.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

	In case of fire, use carbon dioxide (CO ₂), Alcohol resistant foam, Dry chemical, Foam. Use extinguishing media appropriate to the surrounding fire conditions.
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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.
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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
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Prozap® Dairy Cattle Spray

Revision 3
Revision date 2020-01-30

6.1. Personal precautions, protective equipment and emergency procedures

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

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.

Further information

Refer to product label for FIFRA-required Storage and Disposal directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Values


Prozap® Dairy Cattle Spray

Revision 3
Revision date 2020-01-30

Exposure Limit Values

Dichlorvos (ISO) (Dichlorvos (DDVP))	ACGIH TLV TWA: 0.1 mg/m ³ (IFV) Notations: Skin; SEN; A4; BEI A OSHA PEL 8hr TWA mg m3: 1 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: - OSHA PEL 8hr TWA ppm: - Skin Designation: X NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:
Kerosine - unspecified - kerosine (petroleum), hydrodesulfurized (Kerosene/Jet fuels as total hydrocarbon vapor)	ACGIH TLV TWA: 200 mg/m ³ (P) Notations: Skin; A3 OSHA PEL 8hr TWA mg m3: - NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: - OSHA PEL 8hr TWA ppm: - Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:
Pyrethrins (Pyrethrum)	ACGIH TLV TWA: 5 mg/m ³ Notations: A4 OSHA PEL 8hr TWA mg m3: 5 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: - OSHA PEL 8hr TWA ppm: - Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:
Straight run kerosine - kerosine (petroleum) (Kerosene/Jet fuels as total hydrocarbon vapor)	ACGIH TLV TWA: 200 mg/m ³ (P) Notations: Skin; A3 OSHA PEL 8hr TWA mg m3: - NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: - OSHA PEL 8hr TWA ppm: - 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	Use as appropriate: Suitable eye protection.
Skin protection - Hand protection	Use as appropriate: Chemical-resistant gloves made of any waterproof material.
Skin protection - Other	Use as appropriate: Protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Occupational exposure controls	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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Prozap® Dairy Cattle Spray

Revision 3
Revision date 2020-01-30**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

State	Liquid
Color	Clear/Light yellow
Odor	Characteristic/Sweet
Odor threshold	No data available
pH	No data available
Melting point	No data available
Freezing Point	No data available
Boiling point	154 - 172 °C
Flash point	50 °C
Evaporation rate	< 1
Flammability limits	Not applicable.
Upper Explosive Limit	5 %
Lower Explosive Limit	0.7 %
Vapor pressure	< 2 mmHg
Vapor density	> 4.5
Relative density	0.775 - 0.84
Partition coefficient	4.65 log P
Autoignition temperature	210 °C
Viscosity	2 cP @ 25°C
Explosive properties	No data available
Oxidizing properties	No data available
Solubility	Insoluble in water

9.2. Other information

VOC (Volatile organic compounds)	99.14 %
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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

	Carbon oxides.
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SECTION 11: Toxicological information

Prozap® Dairy Cattle Spray

Revision 3
Revision date 2020-01-30

11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	Listed by the International Agency for Research on Cancer (IARC) as a Group 2 substance: suspected of being a human carcinogen, [Dichlorvos, CAS No. 62-73-7]. Not listed in the National Toxicology Program (NTP) 14th Report on Carcinogens. Not listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No teratogenic effects reported.
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT-repeated exposure	Component(s) may cause damage to human organs based on animal data.
Aspiration hazard	Potential for aspiration if swallowed.
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. Ingestion. Inhalation.
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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

	<1% of this mixture consists of ingredients of unknown acute toxicity.
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11.1.12. Mixture versus substance information

Prozap® Dairy Cattle Spray

Revision 3
Revision date 2020-01-30

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

Prozap® Dairy Cattle Spray 4.65 log P

Dichlorvos (ISO) 3.84 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

This product is toxic to fish, birds, and aquatic invertebrates.
This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

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.

Further information

Refer to product label for FIFRA-required Storage and Disposal directions.

SECTION 14: Transport information

Hazard pictograms

Prozap® Dairy Cattle Spray

Revision 3
Revision date 2020-01-30

Hazard pictograms



14.1. UN number

UN1268

14.2. UN proper shipping name

PETROLEUM DISTILLATES, N.O.S.

14.3. Transport hazard class(es)

DOT	3
Subsidiary risk	-
IMDG	3
Subsidiary risk	-
IATA	3
Subsidiary risk	-

14.4. Packing group

Packing group III

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

DOT

Hazard ID	30
Tunnel Category	(D/E)

IMDG

EmS Code	F-E S-E
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IATA

Packing Instruction (Cargo)	366
Maximum quantity	220 L
Packing Instruction (Passenger)	355
Maximum quantity	60 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: Dichlorvos. New Jersey Worker and Community Right to Know Act: Dichlorvos. Pennsylvania Right to Know Law: This material contains no reportable components. Rhode Island Right-to-Know General Law: This material contains no reportable components.

Prozap® Dairy Cattle Spray

Revision 3
Revision date 2020-01-30

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 dichlorvos, CAS No. 62-73-7, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Kerosine - unspecified - kerosine (petroleum), hydrodesulfurized (Kerosine (petroleum), hydrodesulfurized)	Y	N	N	N	N	N	N	N	N
Straight run kerosine - kerosine (petroleum) (Kerosine (petroleum))	Y	N	N	N	N	N	N	N	N
Dichlorvos (ISO) (Phosphoric acid, 2,2-dichloroethenyl dimethyl ester)	Y	Y	Y 0.1	Y	N	Y	Y	Y 1,000	Y 10
Pyrethrins	N	N	N	N	N	N	Y	N	N

Further information

FIFRA Signal Word FIFRA Warning	<p>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.</p>
	<p>WARNING.</p>
	<p>Keep out of reach of children. Hazards to humans and domestic animals. Causes skin irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed.</p>

SECTION 16: Other information

Other information

Revision	<p>This document differs from the previous version in the following areas:.</p> <p>1 - Manufactured By:.</p> <p>14 - DOT.</p> <p>14 - IMDG.</p> <p>14 - IATA.</p>
Acronyms	<p>ACGIH: American Conference of Governmental Industrial Hygienists.</p> <p>CAS No.: Chemical Abstracts Service.</p> <p>GHS: Globally Harmonized System.</p> <p>HCS 2012: Hazard Communication Standard (2012 revision).</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: International Civil Aviation Organization.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LC: Lethal concentration.</p> <p>LD: Lethal dose.</p> <p>OEL: Occupational exposure limit.</p> <p>OSHA: U.S. Occupational Safety and Health Administration.</p> <p>PEL: Permissible Exposure Limit.</p> <p>UN: United Nations.</p> <p>US DOT: United States Department of Transportation.</p> <p>VOC: Volatile Organic Compound.</p> <p>WEL: Workplace Exposure Limit.</p>

Prozap® Dairy Cattle Spray

Revision 3
Revision date 2020-01-30

Other information

Text of Hazard Statements in Section 3	<p>Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Acute Tox. 3: H301 - Toxic if swallowed. Acute Tox. 3: H311 - Toxic in contact with skin. Skin Sens. 1: H317 - May cause an allergic skin reaction. Acute Tox. 2: H330 - Fatal if inhaled. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled</p>
Maximum content of VOC	99.14 %.

Further information

	<p>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.</p> <p>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.</p>
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