

## SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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### Synergize®

Revision 1  
Revision date 2018-10-16

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

##### 1.1. Product identifier

Product name	Synergize®
Product code	403381, 433600, 433606, 434700

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

Description	Disinfectant.
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##### 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	regulatorysupport@neogen.com

##### 1.4. Emergency telephone number

Emergency telephone number	1-800-234-5333
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##### Further information

Manufactured By:	Preserve International 944 Nandino Blvd. Lexington, KY 40511-1205 U.S.A.  Preserve International is a wholly-owned subsidiary of Neogen Corporation.
Hotline(s):	Medical: United States (1-800-498-5743), International (1-651-523-0318). Spill/CHEMTREC: United States (1-800-424-9300), International (1-703-527-3887).

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Acute Tox. 4: H332; Resp. Sens. 1: H334; STOT SE 3: H335; Aquatic Chronic 2: H411;
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##### 2.2. Label elements

Hazard pictograms	
Signal Word	Danger

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## 2.2. Label elements

<b>Hazard Statement</b>	Acute Tox. 4: H302 - Harmful if swallowed. 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. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
<b>Precautionary Statement: Prevention</b>	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement: Response</b>	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.
<b>Precautionary Statement: Disposal</b>	P501 - Dispose of contents/container to an approved waste disposal facility in accordance with local and national regulations.

## 2.3. Other hazards

<b>Other hazards</b>	No data is available on this product.
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## 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
Nonylphenoxy Polyethoxy Ethanol (Nonoxynol)		127087-87-0			1 - 10%	Acute Tox. 4: H302+H332; Eye Dam. 1: H318; Aquatic Chronic 2: H411;
Glutaral (Glutaraldehyde)	605-022-00-X	111-30-8	203-856-5		1 - 10%	Acute Tox. 2: H330; Acute Tox. 3: H301; STOT SE 3; H335; Skin Corr. 1B: H314; Resp. Sens. 1: H334; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 2: H411;
Alkyl Dimethyl Benzyl Ammonium Chloride		68391-01-5			20 - 30%	Acute Tox. 4: H302; Skin Corr. 1B: H314;
Terpineol		8000-41-7	233-986-8		1 - 10%	Skin Irrit. 2: H315; Eye Irrit. 2: H319;
Citric acid.		77-92-9	201-069-1		1 - 10%	Eye Dam. 1: H318;
Pine oil		8002-09-3	304-455-9		1 - 10%	Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Sens. 1: H317; Aquatic Chronic 1: H410;

## Further information

	The exact percentage (concentration) of composition has been withheld as a trade secret.
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## SECTION 4: First aid measures

## 4.1. Description of first aid measures

<b>Inhalation</b>	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
<b>Eye contact</b>	Avoid contact with eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed.

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## 4.1. Description of first aid measures

Skin contact	Avoid contact with skin. Remove contaminated clothing. Wash off immediately with plenty of soap and water.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person.

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

Inhalation	May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause sensitization by inhalation.
Eye contact	Causes severe burns. Risk of serious damage to eyes.
Skin contact	Causes severe burns. May cause an allergic skin reaction. May cause sensitization by skin contact.
Ingestion	Causes severe burns.

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

Inhalation	Seek medical attention if irritation or symptoms persist.
Eye contact	Seek medical attention.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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## 5.2. Special hazards arising from the substance or mixture

	Heat will increase pressure in sealed containers. Cool fire exposed containers with waterspray. Burning produces irritating, toxic and obnoxious fumes.
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## 5.3. Advice for firefighters

	In case of fire and/or explosion do not breathe fumes. Wear suitable respiratory equipment when necessary.
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## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

	Avoid contact with skin and eyes. Wear suitable protective clothing and eye/face protection. Wear suitable respiratory equipment when necessary. Wash hands after handling the product. Ensure adequate ventilation of the working area.
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## 6.2. Environmental precautions

	Do not allow product to enter drains. Do not allow runoff water to enter sewers or drains. Do not empty into drains; dispose of this material and its container in a safe way. Do not flush into surface water.
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## 6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. Dispose of in compliance with all local and national regulations.
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## 6.4. Reference to other sections

	See section 2, 8 & 13 for further information.
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## SECTION 7: Handling and storage

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## 7.1. Precautions for safe handling

	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes and skin. Wear suitable protective clothing and eye/face protection. Ensure adequate ventilation of the working area. Do not breathe gas/fumes/vapor/spray. When using do not eat, drink or smoke.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Keep containers tightly closed. Keep in a cool, dry, well ventilated area. Store in correctly labelled containers. Store at temperatures between 20 °C and 25 °C.
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## 7.3. Specific end use(s)

	See section 1.2 for further information.
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## SECTION 8: Exposure controls/personal protection


## 8.1. Control parameters

	Occupational exposure controls.
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## Exposure Limit Values

Glutaral (Glutaraldehyde)	<p>ACGIH TLV TWA: -</p> <p>Notations: SEN; A4</p> <p>OSHA PEL 8hr TWA mg m3: -</p> <p>NIOSH REL 10hr TWA ppm:</p> <p>NIOSH REL 15 min ST ppm:</p>	<p>ACGIH TLV STEL: C 0.05 ppm</p> <p>OSHA PEL 8hr TWA ppm: -</p> <p>Skin Designation: -</p> <p>NIOSH REL 10hr TWA mg m3:</p> <p>NIOSH REL 15 min ST mg m3:</p>
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## 8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Wear suitable protective clothing.
Eye / face protection	Wear:.. Approved safety goggles.
Skin protection - Hand protection	Wear:.. Chemical resistant gloves.
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	Do not breathe gas/fumes/vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment.
Occupational exposure controls	Keep away from food, drink and animal feed and/ or feed products.

## 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

<b>State</b>	Liquid
<b>Color</b>	Light yellow
<b>Odor</b>	Characteristic
<b>Odour threshold</b>	No data available
<b>pH</b>	3 - 4.5
<b>Melting point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability limits</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	No data available
<b>Fat Solubility</b>	No data available
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Solubility</b>	Soluble in water

## 9.2. Other information

<b>Conductivity</b>	No data available
<b>Surface tension</b>	No data available
<b>Specific gravity</b>	1.03 - 1.04 g/cm <sup>3</sup>
<b>Gas group</b>	No data available

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	No data available.
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## 10.2. Chemical stability

	Stable under normal conditions.
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## 10.3. Possibility of hazardous reactions

	No data available.
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## 10.4. Conditions to avoid

	Heat, sparks and open flames. Heat will increase pressure in sealed containers.
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## 10.5. Incompatible materials

	Oxidizing agents.
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## 10.6. Hazardous decomposition products

	Carbon oxides.
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## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

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## 11.1. Information on toxicological effects

Acute toxicity	Harmful if swallowed.
Skin corrosion/irritation	Causes severe burns.
Serious eye damage/irritation	Causes serious eye damage. Causes severe burns.
Respiratory or skin sensitisation	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	No data available.
Carcinogenicity	Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112. Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No data available.
STOT-single exposure	May cause irritation to respiratory system.
STOT-repeated exposure	No data available.
Aspiration hazard	No data available.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. May cause allergic reactions in susceptible people.

## 11.1.4. Toxicological information

Glutaral	Dermal Rat LD50: > 2500 mg/kg Inhalation Rat LC50/4 h: 0.48 mg/l	Oral Rat LD50: 134 mg/kg
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## SECTION 12: Ecological information

## 12.1. Toxicity

Glutaral	Daphnia EC50/48h: 0.750000 mg/l Rainbow trout LC50/96h: 3.5 mg/l	Algae EC50/72h: 0.61 mg/l
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## 12.2. Persistence and degradability

	No data available.
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## 12.3. Bioaccumulative potential

	No data available.
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## Partition coefficient

	Synergize® No data available
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## 12.4. Mobility in soil

	No data available.
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## 12.5. Results of PBT and vPvB assessment

	No data available.
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## 12.6. Other adverse effects

	Toxic to aquatic life with long lasting effects.
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## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

	Dispose of in compliance with all local and national regulations.
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## Disposal methods

Contact a licensed waste disposal company.

## Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

## SECTION 14: Transport information

## Hazard pictograms



## 14.1. UN number

UN1903

## 14.2. UN proper shipping name

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (DIMETHYLBENZYLAMMONIUM CHLORIDE)

## 14.3. Transport hazard class(es)

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

## 14.4. Packing group

Packing group II

## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## 14.6. Special precautions for user

No data available.

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

## DOT

Hazard ID	80
Tunnel Category	(E)

## IMDG

EmS Code F-A S-B

## IATA

Packing Instruction (Cargo)	855
Maximum quantity	30 L
Packing Instruction (Passenger)	851

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## IATA

Maximum quantity 1 L

## SECTION 15: Regulatory information

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

<b>Regulations</b>	<p>Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.</p> <p>All chemicals in this product are TSCA listed or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. TSCA - United States Toxic Substances Control Act Section 8(b) Inventory.</p> <p>US State Regulations:</p> <p>New Jersey Right-to-Know Hazardous Substance List: This material contains no reportable components</p> <p>Pennsylvania Right-to-Know Hazardous Substance List: This material contains no reportable components.</p> <p>Rhode Island Right-to-Know Hazardous Substance List: This material contains no reportable components.</p>
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## Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Glutaral (Pentanedial)	Y	N	N	N	N	N	N	N	N

## Further information

<b>FIFRA</b>	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.
<b>FIFRA Signal Word</b>	DANGER.
<b>FIFRA Warning</b>	Hazards to humans and domestic animals. Corrosive. Causes irreversible eye damage. May be fatal if swallowed or inhaled. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Do not breathe vapour spray mist. Wear goggles or face shield and rubber gloves when handling this product. Wear respiratory protection. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

## SECTION 16: Other information

## Other information

<b>Revision</b>	<p>This document differs from the previous version in the following areas:.</p> <p>1 - Description.</p> <p>1 - Manufactured By:.</p> <p>1 - Hotline(s):.</p> <p>2 - Precautionary Statement: Disposal.</p> <p>3 - Further information.</p> <p>11 - Carcinogenicity.</p> <p>11 - STOT-single exposure.</p>
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## Other information

<b>Text of Hazard Statements in Section 3</b>	<p>15 - Regulations. 15 - FIFRA. 15 - FIFRA Warning.</p>
	<p>Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled Eye Dam. 1: H318 - Causes serious eye damage. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Acute Tox. 3: H301 - Toxic if swallowed. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. Acute Tox. 2: H330 - Fatal if inhaled. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Acute 1: H400 - Very toxic to aquatic life. Acute Tox. 4: H302 - Harmful if swallowed. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Liq. 3: H226 - Flammable liquid and vapour. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.</p>

## 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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