



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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Synergize® Cool

Revision 5
Revision date 2019-03-14

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

1.1. Product identifier

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

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 Leshner 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.
Hotline(s):	Preserve International is a wholly-owned subsidiary of Neogen Corporation. 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

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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	<p>Acute Tox. 4: H302 - Harmful if swallowed.</p> <p>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.</p> <p>Skin Sens. 1: H317 - May cause an allergic skin reaction.</p> <p>Acute Tox. 4: H332 - Harmful if inhaled.</p> <p>Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>STOT SE 3: H335 - May cause respiratory irritation.</p> <p>Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.</p>
Precautionary Statement: Prevention	<p>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>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.</p> <p>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>
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	Keep out of reach of children.
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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;
Alkyl Dimethyl Benzyl Ammonium Chloride		68391-01-5			20 - 30%	Acute Tox. 4: H302; Skin Corr. 1B: H314;
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;
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;
Ethylenediaminetetraacetic acid disodium salt dihydrate		6381-92-6	205-358-3		1 - 10%	Acute Tox. 4: H332; STOT RE 2: H373;
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

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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

Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eye contact	Avoid contact with eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed.
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 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 discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water. Do not let product contaminate subsoil.
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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
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6.3. Methods and material for containment and cleaning up

local and national regulations.

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 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.

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.

7.3. Specific end use(s)

See section 1.2 for further information.

SECTION 8: Exposure controls/personal protection




8.1. Control parameters

Occupational exposure controls.

Exposure Limit Values

Glutaral (Glutaraldehyde)	ACGIH TLV TWA: -	ACGIH TLV STEL: C 0.05 ppm
	Notations: SEN; A4	OSHA PEL 8hr TWA ppm: -
	OSHA PEL 8hr TWA mg m3: -	Skin Designation: -
	NIOSH REL 10hr TWA ppm: -	NIOSH REL 10hr TWA mg m3: -
Phosphoric acid...% (Phosphoric acid)	NIOSH REL 15 min ST ppm: -	NIOSH REL 15 min ST mg m3: -
	ACGIH TLV TWA: 1 mg/m ³	ACGIH TLV STEL: 3 mg/m ³
	Notations: -	OSHA PEL 8hr TWA ppm: -
	OSHA PEL 8hr TWA mg m3: 1	Skin Designation: -
	NIOSH REL 10hr TWA ppm: -	NIOSH REL 10hr TWA mg m3: -
	NIOSH REL 15 min ST ppm: -	NIOSH REL 15 min ST mg m3: -

8.2. Exposure controls

Appropriate engineering controls Individual protection measures Eye / face protection Skin protection - Hand protection Skin protection - Other	  	
	Ensure adequate ventilation of the working area.	
	Wear suitable protective clothing.	
	Wear:.. Approved safety goggles.	
	Wear:.. Chemical resistant gloves.	
	Wear suitable protective clothing.	

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8.2. Exposure controls

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

State	Liquid
Color	Light yellow
Odor	Characteristic
Odour threshold	No data available
pH	3 - 4.5
Melting point	No data available
Freezing Point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	Not applicable.
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

Specific gravity	1.03 - 1.04 g/cm ³
VOC (Volatile organic compounds)	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

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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

Acute toxicity	Harmful by inhalation and 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 sensitization by inhalation and skin contact.
Germ cell mutagenicity	No data available.
Carcinogenicity	Suspected of causing cancer . 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
Phosphoric acid...%	Oral Rat LD50: 1530 mg/kg Inhalation Rat LC50/4 h: 212.5 mg/kg	Dermal Rabbit LD50: 2740 mg/kg

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® Cool 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

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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

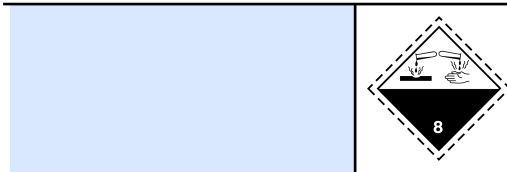
	Contact a licensed waste disposal company.
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Disposal of packaging

	Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.
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SECTION 14: Transport information

Hazard pictograms



14.1. UN number

	UN1903
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14.2. UN proper shipping name

	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Dimethylbenzyl ammonium chloride)
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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
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14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

14.6. Special precautions for user

	No data available.
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

	Not applicable.
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DOT

Hazard ID	80
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DOT	
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
Further information	
	Container sizes of 1 gallon or less to be shipped under ORM-D exemption.

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.
	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.
	US State Regulations: New Jersey Right-to-Know Hazardous Substance List: Phosphoric acid
	Pennsylvania Right-to-Know Hazardous Substance List: Phosphoric acid.
	Rhode Island Right-to-Know Hazardous Substance List: Phosphoric acid.

Inventories

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

Further information

FIFRA	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.
FIFRA Signal Word	DANGER.
FIFRA Warning	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

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with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

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 - Product Use. 2 - Other hazards. 2 - Hazard pictograms. 6 - 6.2. Environmental precautions. 9 - 9.1. Information on basic physical and chemical properties (Flammability limits). 9 - 9.1. Information on basic physical and chemical properties (Fat Solubility). 9 - 9.2. Other information (Conductivity). 9 - 9.2. Other information (Gas group). 9 - 9.2. Other information (Surface tension). 9 - 9.2. Other information (Product Subcategory). 11 - Acute toxicity. 11 - Respiratory or skin sensitisation. 11 - Carcinogenicity. 14 - DOT. 14 - IMDG. 14 - IATA. 15 - Regulations. 16 - Maximum content of VOC.
Text of Hazard Statements in Section 3	<p>Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled</p> <p>Eye Dam. 1: H318 - Causes serious eye damage.</p> <p>Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.</p> <p>Acute Tox. 4: H302 - Harmful if swallowed.</p> <p>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.</p> <p>Acute Tox. 3: H301 - Toxic if swallowed.</p> <p>Skin Sens. 1: H317 - May cause an allergic skin reaction.</p> <p>Acute Tox. 2: H330 - Fatal if inhaled.</p> <p>Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>STOT SE 3: H335 - May cause respiratory irritation.</p> <p>Aquatic Acute 1: H400 - Very toxic to aquatic life.</p> <p>Skin Irrit. 2: H315 - Causes skin irritation.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>Acute Tox. 4: H332 - Harmful if inhaled.</p> <p>STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .</p> <p>Flam. Liq. 3: H226 - Flammable liquid and vapour.</p> <p>Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.</p> <p>Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.</p>

Further information

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