



NEOGEN[®]

SAFETY DATA SHEET

according to 29 CFR 1910.1200

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Dyne-O-Might™

Revision 0
Revision date 2017-08-10

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

1.1. Product identifier

Product name	Dyne-O-Might™
Product code	404184/1, 404184/5, 404184/55

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

Description	Cleaner – Sanitizer – 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

Emergency Telephone Number	Hotline Number: 1-800-498-5743 (United States and Canada), 1-651-523-0318 (All other areas).
Manufactured By	Preserve International 944 Nandino Blvd. Lexington, KY 40511-1205.
Registered By	Preserve International; a wholly owned subsidiary of Neogen Corporation.
EPA Registration No.	66171-6.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	Skin Corr. 1B: H314; Skin Sens. 1: H317; Resp. Sens. 1: H334; STOT SE 3: H335; Muta. 1B: H340;
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2.2. Label elements

Hazard pictograms	
Signal Word	Danger

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2.2. Label elements

Hazard Statement	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. STOT SE 3: H335 - May cause respiratory irritation. Muta. 1B: H340 - May cause genetic defects .
Precautionary Statement: Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	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. P308+P313 - IF exposed or concerned: Get medical advice/attention. P312 - Call a POISON CENTER/doctor/ /if you feel unwell.
Precautionary Statement: Disposal	Dispose of in compliance with label directions.

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
Propionic acid...% (Propionic acid)	607-089-00-0	79-09-4	201-176-3		30 - 40%	Skin Corr. 1B: H314;
Iodine (± Iodine)		7553-56-2	231-442-4		0 - 0.5%	Acute Tox. 4: H312; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Acute Tox. 4: H332; STOT SE 3: H335; STOT RE 1: H372; Aquatic Acute 1: H400;
Phosphoric acid...% (Phosphoric acid)	015-011-00-6	7664-38-2	231-633-2		10 - 20%	Skin Corr. 1B: H314;
Citric acid monohydrate		77-92-9	201-069-1		1 - 10%	Met. Corr. 1: H290; Acute Tox. 3: H301+H311; Acute Tox. 4: H302; Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2B: H320; Resp. Sens. 1: H334; Muta. 1B: H340; Muta. 2: H341; Aquatic Acute 1: H400; Aquatic Chronic 4: H413;

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. If breathing stops, provide artificial respiration.
Eye contact	Avoid contact with eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Contact lenses should be removed.
Skin contact	Take off immediately all contaminated clothing. Wash with soap and water.
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Have person sip a glass of

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4.1. Description of first aid measures

	water if able to swallow.
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4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to respiratory system. May cause sensitization by inhalation. Sensitizer, Lungs.
Eye contact	Causes severe burns.
Skin contact	Causes severe burns. May cause sensitization by skin contact. Sensitizer, Skin.
Ingestion	Ingestion may cause nausea and vomiting. May cause genetic defects .

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

Inhalation	Seek medical attention.
Eye contact	Seek medical attention.
Skin contact	Seek medical attention.
Ingestion	Immediate medical attention is required. Probable mucosal damage may contraindicate the use of gastric lavage.

Further information

NOTE TO PHYSICIAN	Probable mucosal damage may contraindicate the use of gastric lavage.
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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

	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, gloves and eye/face protection. Wear suitable respiratory equipment when necessary. Wash hands after handling the product.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe. This product is toxic to fish. Keep out of lakes, ponds, or streams. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water. Do not discharge effluent containing this product to sewer systems.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal.
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6.4. Reference to other sections

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

7.1. Precautions for safe handling

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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, gloves and eye/face protection.
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7.2. Conditions for safe storage, including any incompatibilities

	DO NOT MIX WITH ALKALINE PRODUCTS. Keep container tightly closed. Keep in a cool, dry, well ventilated area. Keep away from heat.
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7.3. Specific end use(s)

	See section 1.3 for further information.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Values

Iodine (± Iodine)	ACGIH TLV TWA: - Notations: - OSHA PEL 8hr TWA mg m3: (C)1	ACGIH TLV STEL: C 0.1 ppm OSHA PEL 8hr TWA ppm: (C)0.1 Skin Designation: -
Phosphoric acid...% (Phosphoric acid)	ACGIH TLV TWA: 1 mg/m ³ Notations: - OSHA PEL 8hr TWA mg m3: 1	ACGIH TLV STEL: 3 mg/m ³ OSHA PEL 8hr TWA ppm: - Skin Designation: -
Propionic acid...% (Propionic acid)	ACGIH TLV TWA: 10 ppm Notations: - OSHA PEL 8hr TWA mg m3: -	ACGIH TLV STEL: - OSHA PEL 8hr TWA ppm: - Skin Designation: -

8.2. Exposure controls

Eye / face protection	Wear:. Approved safety goggles.
Skin protection - Hand protection	Wear:. Chemical resistant gloves.
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.

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	Red/Brown
Odor	Characteristic
pH	0.5 - 1.1
Melting point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Odour threshold	No data available
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	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

	Keep away from heat. DO NOT MIX WITH ALKALINE PRODUCTS.
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10.5. Incompatible materials

	DO NOT MIX WITH ALKALINE PRODUCTS.
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10.6. Hazardous decomposition products

	No data is available on this product.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data available.
Skin corrosion/irritation	Causes severe burns.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Sensitizer, Lungs. Sensitizer, Skin.

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11.1. Information on toxicological effects

Germ cell mutagenicity	May cause genetic defects .
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	No data available.
STOT-repeated exposure	No data available.
Aspiration hazard	No data available.
Repeated or prolonged exposure	No data available.

11.1.4. Toxicological information

Citric acid monohydrate	Dermal Rat LD50: >2000	Oral Rat LD50: 5400
Iodine	Dermal Rat LD50: 1,425 mg/kg Dermal Rabbit LD50: 175	Oral Rat LD50: 14,000 mg/kg Inhalation Rat LC50/4 h: 4.588 mg/l
Phosphoric acid...%	Oral Rat LD50: 1530 mg/kg Inhalation Rat LC50/4 h: 212.5 mg/L	Dermal Rabbit LD50: 2740 mg/kg
Propionic acid...%	Oral Rat LD50: 3500	Dermal Rabbit LD50: 500

SECTION 12: Ecological information

12.1. Toxicity

Iodine	Daphnia EC50/48h: 0.2000 mg/l	Rainbow trout LC50/96h: 1.7
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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

	Dyne-O-Might™ No data available Phosphoric acid...% No data available	Iodine 249 log P Citric acid monohydrate -1.639 log P
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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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SECTION 13: Disposal considerations

Disposal methods

	Dispose of in compliance with label directions.
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Disposal of packaging

	Containers can be recycled if in compliance with local and national regulations. Do NOT reuse empty containers.
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Hazard pictograms



14.1. UN number

UN1760

14.2. UN proper shipping name

CORROSIVE LIQUID, N.O.S. (Propionic Acid & Phosphoric Acid)

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

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

No data available.

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

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

Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.

15.2. Chemical safety assessment

No data is available on this product.

Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Propionic acid...% (Propanoic acid)	Y	N	N	N	N	N	Y	N	N
Iodine	Y	N	N	N	N	N	N	N	N
Phosphoric acid...% (Phosphoric acid)	Y	Y	N	N	N	N	Y	N	N
Citric acid monohydrate (1,2,3-Propanetricarboxylic acid, 2-hydroxy-)	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.
EPA Registration No.	66171-6.
FIFRA Signal Word	DANGER.
FIFRA Warning	Corrosive. Causes eye damage and skin damage. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling this product. Wash 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.

SECTION 16: Other information

Other information

Text of Hazard Statements in Section 3	<p>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.</p> <p>Skin Irrit. 2: H315 - Causes skin irritation.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>STOT SE 3: H335 - May cause respiratory irritation.</p> <p>Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled</p> <p>STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .</p> <p>Aquatic Acute 1: H400 - Very toxic to aquatic life.</p> <p>Met. Corr. 1: H290 - May be corrosive to metals.</p> <p>Acute Tox. 3: H301+H311 - Toxic if swallowed or in contact with skin</p> <p>Acute Tox. 4: H302 - Harmful if swallowed.</p> <p>Skin Sens. 1: H317 - May cause an allergic skin reaction.</p> <p>Eye Irrit. 2B: H320 - Causes eye irritation.</p> <p>Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>Muta. 1B: H340 - May cause genetic defects .</p> <p>Muta. 2: H341 - Suspected of causing genetic defects .</p> <p>Aquatic Chronic 4: H413 - May cause long lasting harmful effects to aquatic life.</p>
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General information

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