

2.2. Label elements

SAFETY DATA SHEET

according to Hazardous Products Regulations (HPR)

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Chlorinated Tray Wash EVO

	Revision date 2020-07-22
SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	Chlorinated Tray Wash EVO
Product code	418091, 318091
1.2. Relevant identified uses of t	the substance or mixture and uses advised against
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC35]
	Washing and cleaning products (including solvent based products);
Description	Cleaner.
1.3. Details of the supplier of the	safety data sheet
Company	Neogen Corporation
Address	620 Lesher Place
	Lansing MI 48912
	USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com
1.4. Emergency telephone numb	per
	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)
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.
SECTION 2: Hazards identif	ication
2.1. Classification of the substar	nce or mixture
2.1.2. Classification - GHS	Skin Corr. 1C: H314;

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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.
Precautionary Statement: Prevention	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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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. P310 - Immediately call a POISON CENTER or doctor/physician. P363 - Wash contaminated clothing before reuse.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations
2.3. Other hazards	
Other hazards	May be corrosive to metals. May be harmful if swallowed. Contains substance(s) which are hazardous to the environment.

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
Potassium hydroxide	019-002-00-8	1310-58-3	215-181-3		1 - 10%	Acute Tox. 4: H302; Skin Corr. 1A: H314;
Sodium hypochlorite solution, 12.5%		7681-52-9	231-668-3		10 - 20%	Skin Corr. 1C: H314;
Potassium silicate solution		1312-76-1	215-199-1		1 - 10%	Acute Tox. 4: H302;

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

2 000p	
Inhalation	Move the exposed person to fresh air. Immediate medical attention is required. If unconscious,
	check for breathing and apply artificial respiration if necessary. If breathing is difficult give oxygen.
	If breathing stops, provide artificial respiration.
Eye contact	Remove the affected person from the source of contamination immediately. Hold eye open and

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4.1. Description of first aid mea	asures
	rinse slowly and gently with water for 15-20 minutes. Contact lenses should be removed. Immediate medical attention is required.
Skin contact	Remove the affected person from the source of contamination immediately. After contact with skin take off immediately all contaminated clothing, and wash immediately with plenty of soap and water. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Immediate medical attention is required.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting unless told to do so by the poison control center or doctor. Probable mucosal damage may contraindicate the use of gastric lavage. Never give anything by mouth to an unconscious person. Immediate medical attention is required.
4.2. Most important symptoms	and effects, both acute and delayed
Inhalation	Corrosive to the respiratory tract. Causes burns. In severe cases, may cause loss of consciousness. May cause irritation to mucous membranes.
Eye contact	Risk of serious damage to eyes. Causes severe inflammation and may damage the cornea. Danger of very serious irreversible effects.
Skin contact	Corrosive to living tissue. Causes skin burns. Danger of very serious irreversible effects.
Ingestion	Corrosive to living tissue. Causes severe burns. Danger of very serious irreversible effects. Ingestion may cause nausea and vomiting.
4.3. Indication of any immedia	te 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. Immediate medical attention is required. If medical advice is needed, have product container or label at hand.
Further information	
	Refer to product label and/or package insert for additional information.
SECTION 5: Firefighting m	easures
5.1. Extinguishing media	
	Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards arising fro	om the substance or mixture
	May intensify fire; oxidiser. Contains substance(s) which are hazardous to the environment.
5.3. Advice for firefighters	
	In case of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and chemical-protective clothing.
SECTION 6: Accidental rel	ease measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
	In the case of cleanup following a spill, wear protective clothing and appropriate equipment to prevent exposure of skin and eyes and to prevent ingestion or inhalation. Ensure adequate ventilation of the working area. Keep personnel away from spill. Avoid contact with eyes and skin. Avoid prolonged or repeated exposure. Keep away from incompatible materials.
6.2. Environmental precautions	<u> </u>
	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
	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.

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6.3. Methods and material for containment and cleaning up

Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

6.4. Reference to other sections

See Section(s) 2, 8, and 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. Handle and open container with care. Do not breathe vapour or spray mist. Ensure adequate ventilation of the working area. In case of insufficient ventilation, wear suitable respiratory equipment. Causes eye damage and skin damage. Wear chemical protective clothing. Wear goggles or face shield and rubber gloves when handling this product. Wash the outside of gloves before removing them. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Contaminated work clothing should not be allowed out of the workplace. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not eat, drink or smoke in areas where this product is used or stored. Read the entire label and follow all use directions, restrictions, and precautions.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container in a cool, dry place inaccessible to children and pets. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Keep containers closed and away from other chemicals. Do not store with incompatible substances or mixtures. Follow label instructions.

7.3. Specific end use(s)

See Section(s) 1.2 for further information.

Further information

Refer to product label and/or package insert for additional information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Potassium hydroxide	8-hour OEL ppm:	8-hour OEL mg/m3:
	8-hour OEL f/cc:	15-min or ceiling (c) OEL ppm:
	15-min or ceiling (c) OEL mg/m3: (c) 2	Substance interaction 1,2,3:

8.2. Exposure controls







8.2.1. Appropriate engineering controls

8.2.2. Individual protection measures

Eye / face protection

Ensure adequate ventilation of the working area. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects.

Wear chemical protective clothing. Do not breathe vapour or spray mist.

Wear: Chemical safety goggles, Face shield.

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8.2.	Exposure	control	S
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o.z. Exposure controls	
Skin protection - Handprotection	Wear: Chemical resistant gloves. Wash the outside of gloves before removing them. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
Skin protection - Other	After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Occupational exposure controls	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Provide chemical shower. Provide eye wash station. Protect clothing from contact with the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contamination of food or feedstuffs.
Further information	
	Refer to product label for additional PPE requirements and recommendations. Follow label instructions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Clear
Odour	Chlorine
pH	11.7 - 12.9
Relative density	1.152
Viscosity	3 cP @ 25°C
Oxidising	Yes
Partition coefficient	No data available
Autoignition temperature	No data available
Melting point	No data available
Odour threshold	No data available
Flash point	No data available
Evaporation rate	No data available
Vapour pressure	No data available
Vapour density	No data available
Boiling point	> 100 °C
Freezing Point	<0°C
Flammability limits	Not applicable.
Explosive	Not applicable.
Solubility	Soluble in water

9.2. Other information

VOC (Volatile organic	No data available
compounds)	

SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal conditions.
10.2. Chemical stability	
	Stable under normal conditions.

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10.3. Possibility of hazardous re	actions
	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
10.4. Conditions to avoid	
	Keep away from extreme temperatures. Keep away from incompatible materials.
10.5. Incompatible materials	·
	Keep away from amines., Ammonia, Strong acids. Avoid contact with: Soft metals.
10.6. Hazardous decomposition	products
	Carbon oxides.
SECTION 11: Toxicological	information
11.1. Information on toxicological	
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	Corrosive to living tissue. Causes burns. Possible risk of irreversible effects.
Serious eye damage/irritation	Causes severe burns. Causes severe inflammation and may damage the cornea. Possible risk of irreversible effects.
Respiratory or skin sensitisation	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No components at >0,01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. No components at >0,01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. No components at >0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs. 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. May cause oral mucosal irritation.
STOT-repeated exposure	Components(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.
11.1.3. Hazard Information	-
	See Section(s) 2 and 3 for further information.
11.1.4. Toxicological Information	1
-	No data available
11.1.5. Hazard Class	•
-	See Section(s) 2 and 4 for further information.
11.1.6. Classification Criteria	· · · · · · · · · · · · · · · · · · ·
	Based on the Globally Harmonised System (GHS) considerations for the classification of mixtures.
	1

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11.1.6. Classification Criteria		
	See Section 15 for regulatory citations.	
11.1.7. Information on likely rout	es of exposure	
	Eye contact. Skin contact. Inhalation. Ingestion.	
11.1.8. Symptoms related to the physical, chemical and toxicological characteristics		
	See Section(s) 4.2 for further information.	
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.	
11.1.10. Interactive effects		
	No data available.	
11.1.11. Absence of specific dat	a	
	<1% of this mixture consists of ingredients of unknown acute toxicity.	
11.1.12. Mixture versus substan	ce information	
	See Section(s) 3 for further information.	
11.1.13. Other information		
	Caution - substance not yet fully tested.	
SECTION 12: Ecological info	ormation	
12.1. Toxicity	ATTICLE OF THE PARTY OF THE PAR	
12.1. TOXIGITY	No data available	
12.2. Persistence and degradab		
12.2. Fersisterice and degradab	No data is available on this product.	
12.3. Bioaccumulative potential	TWO data is available on this product.	
12.0. Bloadcumulative potential		
	No data is available on this product.	
Partition coefficient	The data is a analysis on time product.	
	Chlorinated Tray Wash EVO No data available	
	Onomiator Tray Wash 270 No data available	
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		
	Contains substance(s) which are hazardous to the environment. Specific test data for the mixture is not available.	
SECTION 13: Disposal cons	iderations	
13.1. Waste treatment methods		
	Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations. Do not discharge effluent containing this product to sewer systems. Follow label instructions.	

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Disposal methods	
	Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not empty into drains; dispose of this material and its container in a safe way. Do not flush into surface water. Do not let product contaminate subsoil.
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. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations. Can be recycled if in compliance with local and national regulations.
Further information	
	Refer to product label and/or package insert for additional information.
SECTION 14: Transport info	rmation
Hazard pictograms	
14.1. UN number	
	UN3266
14.2. UN proper shipping name	
	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium hydroxide, Sodium hypochlorite)
14.3. Transport hazard class(es	
ADR/RID	8
Subsidiary risk	-
IMDG	1 8
Subsidiary risk IATA	
Subsidiary risk	8
14.4. Packing group	<u> </u>
Packing group	
14.5. Environmental hazards	<u> </u>
Environmental hazards	No
Marine pollutant	No No
ADR/RID	·
Hazard ID	80
Tunnel Category	(E)
IMDG	
EmS Code	F-A S-B

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IATA

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

SECTION 15: Regulatory information

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

Regulations

WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR).

--International--.

Basel Convention (Hazardous Waste): H8.

Chemical Weapons Convention (OPCW): This material contains no reportable components.

Kyoto Protocol Greenhouse Gases: This material contains no reportable components.

Mercosur Agreement: Not applicable.

Montreal Protocol: This material contains no reportable components.

The Rotterdam Convention: This material contains no reportable components. The Stockholm Convention: This material contains no reportable components.

--Asia and the ASEAN Nations--.

Catalog of Hazardous Chemicals (China): [1667, Potassium hydroxide, CAS No. 1310-58-3]. Regulation of Minister of Trade of the Republic of Indonesia, Number 75, Year 2014, regarding The Second Amendment of Minister of Trade, Number 44, Year 2009, Regarding Provision, Distribution, and Control of Hazardous Substances: This material contains no reportable components.

Chemical Substances Control Law (Japan): This material contains no reportable components. Industrial Safety and Health Act, Dangerous Substances (Japan): Labeling/Notification required, [Potassium hydroxide, CAS No. 1310-58-3], Oxidizing, [Sodium hypochlorite (hypochlorites), CAS No. 7681-52-9].

Poisonous and Deleterious Substances Act (Japan): Deleterious substance, [Potassium hydroxide, CAS No. 1310-58-3].

Water Pollution Control Law (Japan): Designated substance, [Potassium hydroxide, CAS No. 1310-58-3], [Sodium hypochlorite (hypochlorites), CAS No. 7681-52-9].

Chemical Substances Subject to Permission (Korea): Toxic substance, [97-1-137, Potassium hydroxide, CAS No. 1310-58-3].

Restricted or Prohibited Substances (Korea): This material contains no reportable components. Use and Standards of Exposure of Chemicals Hazardous to Health (USECHH), Regulation 2000 (Malaysia): Schedule I exposure standard, CLASS regulation, [Potassium hydroxide, CAS No. 1310-58-3].

Philippine Inventory of Chemicals and Chemical Substances (PICCS): All ingredients listed or exempt.

Taiwan Toxic and Concerned Chemical Substances Control Act (TCCSCA): This material contains no reportable components.

Hazardous Substances Act (Thailand): Type 1, [Sodium hypochlorite, CAS No. 7681-52-9]. Law on Chemicals (Vietnam): Decree 113/2017/ND-CP: List of chemicals subject to compulsory declaration, Decree 113/2017/ND-CP: List of chemicals subject to conditional industrial production and trading, [Potassium hydroxide, CAS No. 1310-58-3].

--Australia and New Zealand--.

Australian Dangerous Goods Code: Class 8.

Australian Inventory of Chemical Substances (AICS): All ingredients listed or exempt.

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

New Zealand Inventory of Chemicals (NZIoC): All ingredients listed or exempt.

--European Union (EU) and the United Kingdom (UK)--.

Authorisation List (Annex XIV of REACH): This material contains no reportable components.

Annex XVII for REACH: This material contains no reportable components.

Article 95 of the Biocidal Products Regulation (BPR): [PT1, Sodium hypochlorite, CAS No. 7681-52-9].

--North America --.

Domestic/Non-Domestic Substances Lists (DSL/NDSL): All ingredients listed or exempt.

Toxic Substances Control Act (TSCA): All ingredients listed or exempt.

Massachusetts Right-to-Know Hazardous Substance List: Potassium hydroxide, Sodium hypochlorite.

New Jersey Worker and Community Right to Know Act: Potassium hydroxide, Sodium hypochlorite.

Pennsylvania Right to Know Law: Potassium hydroxide, Hypochlorous acid sodium salt. Rhode Island Right-to-Know General Law: Potassium hydroxide, Sodium hypochlorite.

California residents please note.

California Proposition 65: This material contains no reportable components.

California Cleaning Product Right-to-Know Act of 2017 (SB 258): See Attachment A for complete list and additional information.

SECTION 16: Other information

Other information

Revision

This document differs from the previous version in the following areas:.

- 1 Manufactured By:.
- 2 Other hazards.
- 2 Precautionary Statement: Response.
- 2 Precautionary Statement: Storage.
- 4 Inhalation.
- 5 5.2. Special hazards arising from the substance or mixture.
- 5 5.3. Advice for firefighters.
- 8 8.2.2. Individual protection measures.
- 9 9.1. Information on basic physical and chemical properties (PH).
- 9 9.1. Information on basic physical and chemical properties (Boiling point).
- 9 9.1. Information on basic physical and chemical properties (Oxidising).
- 9 9.1. Information on basic physical and chemical properties (Viscosity).
- 9 9.1. Information on basic physical and chemical properties (Freezing Point).
- 9 9.2. Other information (Product Subcategory).
- 10 10.5. Incompatible materials.
- 11 Carcinogenicity.
- 12 12.6. Other adverse effects.
- 15 -.
- 16 Maximum content of VOC.
- 16 Acronyms.

Acronyms

ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).

CAS No.: Chemical Abstracts Service.

CLASS: Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013

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Other information

(Malaysia).

GHS: Globally Harmonized System.

HCS 2012: U.S. Hazard Communication Standard (2012 revision).

IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation. IMDG: International Maritime Dangerous Goods.

LD: Lethal dose.

OEL: Occupational exposure limit.

OSHA: U.S. Occupational Safety and Health Administration.

PEL: Permissible Exposure Limit.

REACH: Registration, Evaluation, Authorisation, and Restriction of Chemicals.

STOT: Specific Target Organ Toxicity. SVHC: Substance of very high concern.

US DOT: United States Department of Transportation.

VOC: Volatile Organic Compound. WEL: Workplace Exposure Limit.

Text of Hazard Statements in Section 3

Acute Tox. 4: H302 - Harmful if swallowed.

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.

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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