

WONDERSOL

SECTION 1. IDENTIFICATION

Product Identifier	WONDERSOL
Other Means of Identification	WONDERSOL-2,-3,-6
Other Identification	Liquid
Product Family	Alkaline Caustic Degreaser
Recommended Use	Multi-Purpose Alkaline Cleaner.
Restrictions on Use	For Industrial Use Only. KEEP AWAY FROM CHILDREN.
Manufacturer/Supplier Identifier	Velocity Chemicals Ltd., Unit #1- 9515 190th Street, Surrey, B.C. CANADA, V4N3S1, 604-881-4700, www.velocitychemicals.com
Emergency Phone No.	Not Available
SDS No.	0013
Date of Preparation	November 17, 2023

SECTION 2. HAZARD IDENTIFICATION

Classification

Corrosive to metals - Category 1; Skin corrosion - Category 1; Serious eye damage - Category 1; Specific target organ toxicity (single exposure) - Category 3; Specific target organ toxicity (repeated exposure) - Category 2

Label Elements



Danger

Causes severe skin burns and eye damage.

Causes respiratory irritation.

May be corrosive to metals.

May cause damage to organs through prolonged or repeated exposure.

Prevention:

Use only in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge and a particulate N95, R95, or P95 filter if mists/vapours/fumes are present.

Wash hands and skin thoroughly after handling.

Response:

IF ON SKIN: Wash with plenty of water for 30 minutes.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 30 minutes.

If eye irritation persists: Get medical advice/attention.

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

Storage:

Store in a cool, dry place away from incompatibles. Do not mix with any other chemicals. Keep container closed when not in use. Keep from freezing. Keep temperatures > 4 ° C and < 30 ° C.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

Repeated exposure may cause skin dryness or cracking.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Tetrasodium ethylenediaminetetraacetate	64-02-8	1-5	Not applicable	
Potassium hydroxide	1310-58-3	1-5	Not applicable	
2-Butoxyethanol	111-76-2	1-5	Not applicable	
Tetrapotassium pyrophosphate	7320-34-5	1-5	Not applicable	

Notes

Concentrations are expressed in % weight/weight.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move victim to fresh air. Apply artificial respiration if necessary. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Immediately rinse skin with lukewarm, gently flowing water for at least 30 minutes. If skin irritation occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Give large amounts of water if conscious. Do not induce vomiting. Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

At high concentrations

If on skin: may burn the skin. Permanent scarring may result. May cause blood disorder (decreased ability to carry oxygen), kidney and liver disorders through repeated and prolonged exposure. If in eyes: may cause serious eye damage. May irritate or burn the eyes. Permanent damage including blindness may result. If inhaled: can cause severe irritation of the nose and throat. Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest.

Immediate Medical Attention and Special Treatment

Target Organs

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Skin, eyes, respiratory system, blood, kidneys, liver.

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

Asthma, dermatitis, blood conditions, kidney conditions, liver conditions.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire. Use water to keep non-leaking, fire-exposed containers cool.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Prolonged contact with sensitive metals like aluminum may form flammable hydrogen gas. Not sensitive to static discharge.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides; corrosive phosphorous oxides. other toxic vapours.

Special Protective Equipment and Precautions for Fire-fighters

Wear NIOSH/OSHA approved, self contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Remove or isolate incompatible materials as well as other hazardous materials.

Environmental Precautions

Concentrated product: it is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up. Large spills or leaks: dike spilled product to prevent runoff. Recover material by vacuum or pump into a suitable waste container. Small spills or leaks: stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

Reuse material if possible, or otherwise dispose in accordance with local regulations.

Other Information

Contact supplier, local fire and emergency services for help. Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Use good hygiene practices. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Only use where there is adequate ventilation. Wear personal protective equipment to avoid direct contact with this chemical. Do not get in eyes, on skin or on clothing. Avoid repeated or prolonged skin contact. Avoid generating vapours or mists.

Conditions for Safe Storage

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Store in an area that is: cool, ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Keep temperatures > 4 ° C and < 30 ° C. Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Tetrasodium ethylenediaminetetraacetate	Not established	Not established	Not established	Not established	Not established	Not established
Potassium hydroxide	2 mg/m ³ C		2 mg/m ³ C		Not established	
2-Butoxyethanol	20 ppm	Not established	50 ppm Skin	Not established	Not established	Not established

(2-Butoxyethanol) : IDLH = 700 ppm

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA® = AIHA® Guideline Foundation. WEEL® = Workplace Environmental Exposure Limit. Short-term TWA = Time-Weighted Average with specified time limit. TWA = Time-Weighted Average. C = Ceiling limit. IDLH= Immediately Dangerous to Life or Health.

Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Suitable materials are: butyl rubber, natural rubber, nitrile rubber, neoprene rubber.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge and a particulate N95, R95, or P95 filter if mists/vapours/fumes are present.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear liquid.
Odour	Sweet
Odour Threshold	Not available
pH	13.0 - 14.0 (100% solution)
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Boiling Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available

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Relative Density (water = 1)	1.08 at 20 °C
Solubility	Soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)

SECTION 10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Freezing.

Incompatible Materials

Reacts with or incompatible with: strong acids (e.g. hydrochloric acid), strong oxidizing agents (e.g. perchloric acid), oxidizing agents (e.g. peroxides). Prolonged contact with sensitive metals like aluminum may form flammable hydrogen gas.

Corrosive to: aluminum alloys, zinc alloys.

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide; corrosive phosphorous oxides; corrosive, oxidizing nitrogen oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Skin contact; eye contact; inhalation; skin absorption.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Tetrasodium ethylenediaminetetraacetate	Not available	3030 mg/kg (rat)	> 5000 mg/kg (rabbit)
Potassium hydroxide	Not available	365 mg/kg (rat)	Not available
2-Butoxyethanol	925 ppm (rat) (4-hour exposure)	400 mg/kg (rat)	220 mg/kg (rabbit)
Tetrapotassium pyrophosphate	Not available	2444 mg/kg (rat)	> 4640 mg/kg (rabbit)

Skin Corrosion/Irritation

May burn the skin. Permanent scarring may result. Repeated or prolonged exposure can irritate or burn the skin.

Serious Eye Damage/Irritation

Contact causes severe burns with redness, swelling, pain and blurred vision. Permanent damage including blindness can result.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

At high concentrations may cause severe nose and throat irritation, lung injury. Symptoms may include coughing,

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shortness of breath, difficult breathing and tightness in the chest.

Skin Absorption

(2-Butoxyethanol) may cause decreased ability of the blood to carry oxygen. May cause harmful effects on the kidneys, harmful effects on the liver.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Effects similar to STOT (Specific Target Organ Toxicity) - Single Exposure, as described above. May cause dermatitis. Symptoms may include dry, red, cracked skin (dermatitis). Irritation of the respiratory system. May cause respiratory tract injury.

Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Tetrasodium ethylenediaminetetraacetate	Not Listed	Not designated	Not Listed	Not Listed
Potassium hydroxide	Not Listed	Not Listed	Not Listed	Not Listed
2-Butoxyethanol	Group 3	A3	Not Listed	Not Listed
Tetrapotassium pyrophosphate	Not Listed	Not designated	Not Listed	Not Listed

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. IARC = International Agency for Research on Cancer. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration. Group 3 = Not classifiable as to its carcinogenicity to humans. A3 = Animal carcinogen.

Reproductive Toxicity

Development of Offspring

Not known to harm the unborn child.

Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

Germ Cell Mutagenicity

Not known to be a mutagen.

No information was located for: Effects on or via Lactation, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life, based on high pH of mixture.

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Tetrasodium ethylenediaminetetraacetate	41 mg/L (Lepomis macrochirus (bluegill); 96-hour; static)			
2-Butoxyethanol	1490 mg/L (Lepomis macrochirus (bluegill); 96-hour; static)			

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Tetrapotassium pyrophosphate	100 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour)			
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Persistence and Degradability

No ingredient of this product or its degradation products is known to be highly persistent.

Bioaccumulative Potential

This product and its degradation products are not expected to bioaccumulate.

Mobility in Soil

Studies are not available.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Recycle and reuse product, if possible. Recommended disposal methods are for the product, as sold. (Used material may contain other hazardous contaminants). The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1814	POTASSIUM HYDROXIDE, SOLUTION	8	III
US DOT	1814	POTASSIUM HYDROXIDE, SOLUTION	8	III

Environmental Hazards Not applicable

Special Precautions Not applicable

Transport in Bulk according to International Maritime Organization Instruments

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By Technical Department

Phone No. 604-881-4700

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