

SAFETY DATA SHEET

1. Identification

Product identifier A.O. Smith Universal Water Softener Cleaner

Other means of identification

Synonyms Ecopure Water Softener Cleaner
Recommended use Water Softener Resin Cleaner

Recommended restrictions None known.

Manufacturer information Pro Products LLC

6714 Pointe Inverness Way

Suite 200

Fort Wayne, IN 46804-7935 US

Phone: 260-483-2519

Emergency Phone: 1-800-424-9300 (CHEMTREC)

Supplier See above.

2. Hazard identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2

Environmental hazards Not classified.

WHMIS 2015 defined hazards Not classified

Label elements



Signal word Warning

Hazard statement May be corrosive to metals. Causes skin irritation. Causes eye irritation.

Precautionary statement

Prevention Keep only in original packaging. Wash thoroughly after handling. Wear protective gloves. Wear

eye protection.

Response Absorb spillage to prevent material-damage.

IF ON SKIN: Wash with plenty of water. Specific treatment (see information on this label). If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage Store in a corrosion resistant container with a resistant inner liner.

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

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

None known

None known

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

3. Composition/Information on ingredients

Mixture

Chemical nameCommon name and synonymsCAS number%Phosphoric acid7664-38-23 - 7*

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Composition comments

US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Skin contact

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see information on this label).

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Ingestion

Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing.

Obtain medical attention.

Most important symptoms/effects, acute and delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Treat for surrounding material.

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Special protective equipment

Firefighters should wear a self-contained breathing apparatus.

and precautions for firefighters

Fire-fighting equipment/instructions

Specific methods

Hazardous combustion products

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Firefighters should wear full protective clothing including self-contained breathing apparatus.

May include and are not limited to: Oxides of carbon. Oxides of phosphorus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Prevent entry into waterways, sewers, basements or confined areas.

7. Handling and storage

Precautions for safe handling

Provide adequate ventilation. When using, do not eat, drink or smoke. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing.

Conditions for safe storage, including any incompatibilities Store in a corrosion resistant container with a resistant inner liner. Store in a closed container away from incompatible materials. Keep only in the original container. Store in a cool, dry place out of direct sunlight.

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Q Evnocuro	controls/Perso	nal protection
o. Exposure	COIIII 013/FE130	Hai Di Olection

Occ

Components	nal Health & Safety Code, Sche Type	Value
Phosphoric acid (CAS 664-38-2)	STEL	3 mg/m3
- -,	TWA	1 mg/m3
anada. British Columbia OELs. (Cafety Regulation 296/97, as amen		or Chemical Substances, Occupational Health and
Components	Туре	Value
Phosphoric acid (CAS 664-38-2)	STEL	3 mg/m3
	TWA	1 mg/m3
Canada. Manitoba OELs (Reg. 217	2006, The Workplace Safety A	nd Health Act)
Components	Туре	Value
Phosphoric acid (CAS 664-38-2)	STEL	3 mg/m3
	TWA	1 mg/m3
Canada. Ontario OELs. (Control of	Exposure to Biological or Che	mical Agents)
Components	Туре	Value
Phosphoric acid (CAS 664-38-2)	STEL	3 mg/m3
	TWA	1 mg/m3
Canada. Quebec OELs. (Ministry o	f Labor - Regulation respecting	occupational health and safety)
Components	Туре	Value
Phosphoric acid (CAS 664-38-2)	STEL	3 mg/m3
	TWA	1 mg/m3
Canada. Saskatchewan OELs (Occ	upational Health and Safety Re	egulations, 1996, Table 21)
Components	Туре	Value
Phosphoric acid (CAS 664-38-2)	15 minute	3 mg/m3
	8 hour	1 mg/m3
JS. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910.10	00)
Components	Туре	Value
Phosphoric acid (CAS 7664-38-2)	PEL	1 mg/m3
JS. ACGIH Threshold Limit Values		
Components	Туре	Value
Phosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3
	TWA	1 mg/m3
JS. NIOSH: Pocket Guide to Chem	ical Hazards	
Components	Туре	Value
Phosphoric acid (CAS	STEL	3 mg/m3
'664-38-2)		
7664-38-2)	TWA	1 mg/m3

Biological limit values

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

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Impervious gloves. Confirm with reputable supplier first. Hand protection

Other Wear appropriate chemical resistant clothing. As required by employer code.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards

General hygiene considerations

Not applicable.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Wash hands before breaks and immediately after handling the product. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

9. Physical and chemical properties

Clear **Appearance** Physical state Liquid. **Form** Liquid. Color Blue

Characteristic Odor **Odor threshold** Not available. 2.53 (1%) Ηа

Acid Reserve: 2.1

Melting point/freezing point Initial boiling point and boiling

range

Not available. Not available.

Pour point Not available. Not available. Specific gravity Not available. Partition coefficient

(n-octanol/water)

Not available. Flash point Not available. **Evaporation rate** Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Not available.

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Vapor density Not available. 1.08 - 1.1 Relative density Solubility(ies) Not available. Not available. **Auto-ignition temperature Decomposition temperature** Not available.

10. Stability and reactivity

Reactivity Possibility of hazardous

Viscosity

reactions

Reacts vigorously with alkaline material. This product may react with reducing agents.

Hazardous polymerization does not occur.

Chemical stability

Stable under recommended storage conditions.

Do not mix with other chemicals. Conditions to avoid

Caustics. Bases. Reducing agents. Oxidizers. Reacts with metals. Corrosive to aluminum. Incompatible materials

Corrosive to steel.

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon. Oxides of phosphorus.

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Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Ingestion May cause stomach distress, nausea or vomiting.

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

toxicological characteristics

Information on toxicological effects

Acute toxicity

Components Species Test Results

Phosphoric acid (CAS 7664-38-2)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg, ECHA

2740 mg/kg, RTECS

Inhalation

LC50 Guinea pig, Mouse, Rabbit, Rat 5337 mg/m3, 1 Hours, ECHA

3846 mg/m3, 1 Hours, ECHA 1689 mg/m3, 1 Hours, ECHA 1217 mg/m3, 1 Hours, ECHA 856 mg/m3, 1 Hours, ECHA 271 mg/m3, 1 Hours, ECHA 193 mg/m3, 1 Hours, ECHA 61 mg/m3, 1 Hours, ECHA

Oral

LD50 Rat 1530 mg/kg, RTECS

1.7 ml/100g, ECHA

Skin corrosion/irritation Causes skin irritation.

Exposure minutesNot available.Erythema valueNot available.Oedema valueNot available.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Corneal opacity valueNot available.Iris lesion valueNot available.Conjunctival reddeningNot available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

Phosphoric acid (CAS 7664-38-2) Irritant

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Mutagenicity Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity Not classified or listed by IARC, NTP, OSHA and ACGIH.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Reproductive toxicity Non-hazardous by WHMIS/OSHA criteria.

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Non-hazardous by WHMIS/OSHA criteria. **Teratogenicity**

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not available.

Chronic effects

Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity See below

Ecotoxicological data

Test Results Components **Species**

Phosphoric acid (CAS 7664-38-2)

Acute

Fish

LC50 Mosquitofish (Gambusia affinis affinis) 3 - 3.5 mg/L, 96 hr

Aquatic Acute

Crustacea LC50 Water flea (Daphnia magna) 4.6 mg/L, 12 hr

Persistence and degradability

No data available.

Bioaccumulative potential Mobility in soil No data available. Mobility in general Not available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

No data is available on the degradability of this product.

Disposal instructions Review federal, state/provincial, and local government requirements prior to disposal. Collect and

reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical

or used container.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

Other adverse effects

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

Transport of Dangerous Goods (TDG) Proof of Classification

Classification Method: Classified as per Part 2, Sections 2.1 - 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number UN1805

Proper shipping name Phosphoric acid solution

Hazard class

Subsidiary hazard class Limited Quantity - US

Packing group

A7, IB3, N34, T4, TP1 Special provisions Packaging exceptions <1.3 gallons - Limited Quantity

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN1805

Proper shipping name PHOSPHORIC ACID SOLUTION

Hazard class

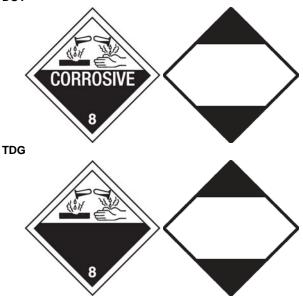
Limited Quantity - Canada

Packing group

Subsidiary hazard class

Packaging exceptions <5L - Limited Quantity

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15. Regulatory information

Canadian federal regulations

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

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Not applicable

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Phosphoric acid (CAS 7664-38-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely

hazardous substance

Yes

SARA 311/312 Hazardous chemical

Classified hazard Corrosive to metal

categories Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA)

Section 112(r) (40 CFR

68.130)

Hazardous substance

US state regulations See below

US - California Hazardous Substances (Director's): Listed substance

Phosphoric acid (CAS 7664-38-2) Liste

US - Illinois Chemical Safety Act: Listed substance

Phosphoric acid (CAS 7664-38-2)

US - Louisiana Spill Reporting: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - Minnesota Haz Subs: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - Texas Effects Screening Levels: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US. Massachusetts RTK - Substance List

Phosphoric acid (CAS 7664-38-2)

US. New Jersey Worker and Community Right-to-Know Act

Phosphoric acid (CAS 7664-38-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Phosphoric acid (CAS 7664-38-2)

US. Rhode Island RTK

Phosphoric acid (CAS 7664-38-2)

US. California Proposition 65

Not Listed.

Inventory status

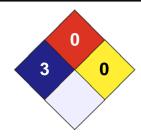
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.

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Prepared by Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

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