




1 Identification

Product Identifier	VISION DESCALER
Supplier	Everstar s.r.o. Bludovská 18, 787 01 Šumperk, Czech Republic Tel. +420 583 301 070 everstar@everstar.cz
Recommended use and restriction on use	Cleaning and descaling agent for steam ovens. This product should not be used for any other purpose. Keep away from children.
Emergency telephone number and any restrictions on the use of that number, if applicable	IMMEDIATELY contact the local POISON CONTROL center for your area (24 hours): United States: 1-800-222-1222 or 911
Substance or mixture	Substance

2 Hazard Identification

Signal Word	WARNING
Pictographs	
Hazard Classifications and categories	Serious eye damage/eye irritation, category 2
Hazard Statements	Causes serious eye irritation.
Precautionary Statements	
PREVENTION	Wash skin and clothing thoroughly after handling. Wear eye and face protection.
RESPONSE	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention.
STORAGE	Keep container tightly closed.
DISPOSAL	Dispose of contents and containers in accordance with local, State and federal regulations.
Other Hazards	May cause skin irritation. May cause respiratory tract irritation.



% of ingredients of unknown toxicity Not applicable – refer to Section 11

3 Composition / Information on ingredients

Chemical Name and Synonyms	CAS #	Concentration % by weight
Citric acid monohydrate 2-hydroxypropane-1,2,3-tricarboxylic acid hydrate Citric acid hydrate	5949-29-1	98-100

4 First Aid Measures

Description of necessary first aid measures

INHALATION	Not expected to have any effects. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical assistance if you feel unwell.
INGESTION	Get medical attention immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. If vomiting occurs prevent patient from aspirating the vomit.
SKIN CONTACT	Not expected to have any effects. Remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains. Launder clothing before reuse. Seek medical attention if symptoms occur.
EYE CONTACT	Get medical attention immediately. Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (20) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion.
The most important symptoms and effects (acute or delayed)	Irritation of airways, coughing, headache. May cause skin irritation, redness. Eye contact will cause serious irritation, reddening, lacrimation and pain with risk of irreversible eye damage. Ingestion may cause gastrointestinal tract irritation.
Immediate and special treatment	Treat symptomatically. A copy of this Safety Data Sheet must accompany a worker seeking treatment for potential exposure to this product.

5 Fire-Fighting Measures



Suitable and unsuitable extinguishing media	Use water mist or spray, alcohol resistant foam, dry chemical or carbon dioxide suitable for surrounding fire.
Special hazards	This product is non-flammable. Keep containers cool with water spray. Closed container may rupture (due to build up in pressure) when exposed to extreme heat. Dense black smoke is formed in fire, carbon monoxide, carbon dioxide, and other toxic gases may be generated. Inhalation of hazardous decomposition pyrolysis products may cause serious harm.
Special protective equipment and precautions for firefighters	Wear self-contained breathing apparatus (SCBA) equipped with a full-face piece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing suitable for surrounding fire. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations. See section 9 for additional information.

6 Accidental Release Measures

Personal precautions	Do not touch spilled material without personal protective equipment. Ensure that area is well-ventilated. Do not generate dust.
Protective equipment	Wear tightly fitting protective chemical resistant goggles and a face shield, impervious protective gloves (natural rubber, neoprene, butyl, or nitrile).
Emergency procedures	Personal protective equipment must be worn. Prevent spilled product from entering drains, pipes or any waterway.
Method and materials for containment and clean up	Do not flush product into public sewer, water systems or surface waters. Stop leak if without risk. Move containers from spill area. Wear proper personal protective clothing and equipment. Shovel or sweep and place into labeled, closed container; store in a secure and safe location to await disposal. Change contaminated clothing and launder before reuse. Notify local authorities as required by any regulations in your jurisdiction.

7 Handling and Storage

Precautions for safe handling	As with any chemical product, use good laboratory/workplace procedures including wearing the recommended personal protective equipment. Use under well-ventilated conditions. Do not generate dust, mist, fumes or vapors when using this product. Do not smoke when using this product. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Do not get in eyes or on skin or clothing. Do not breathe
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Conditions for safe storage including incompatibilities

aerosol, mist, spray, fume, vapor or dust generated by this product. Do not drink, taste, swallow or ingest this product. Wash contaminated clothing before reuse. Do not handle use or handle with acids, other alkalis or oxidizing agents.

Keep away from heat, sparks and open flames. Store under well-ventilated conditions away from direct sunlight. Store this material away from incompatible substances including acids, other alkalis, oxidizing agents. Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container without commercial cleaning or reconditioning.

8 Exposure Controls / Personal Protection

Appropriate engineering controls

Always provide effective general and, when necessary, local exhaust ventilation to draw dust, spray, aerosol, fume, mist and vapor to prevent inhalation. Ventilation must be adequate to maintain air concentrations below occupational exposure standards. When necessary use mechanical handling to reduce human contact with materials.

Individual protection measures/personal protective equipment

Eyewash fountains and safety showers are recommended in the work area.

**Eye/Face
Skin**

Tightly fitting chemical safety goggles and a face shield.

Wear neoprene, natural rubber, butyl or nitrile gloves. Wear clothing that prevents contact with the skin. Wash contaminated clothing before reuse.

Respiratory

Do not breathe aerosol, mist, spray, fume, vapor or dust generated by this product. Respiratory protection must be considered if any dust is generated when using this product.

Ingredient

Citric acid monohydrate

Exposure limit value

Not established

9 Physical and Chemical Properties

Physical State

Solid

Appearance

Crystals

Color

White

Odor

Weak acid odor

Odour Threshold

Not available



pH	2.2 (1% solution @ 20°C)
Melting / Freezing Point °C	135°C
Initial Boiling Point / Boiling Range °C	Not available
Evaporation Rate	Not available
Flammability in the case of solids and gases	Not applicable
Flash Point °C	Not available and not expected to be flammable
Upper and Lower Flammability or Explosive Limits	Not available
Auto-Ignition Temperature °C	1010°C
Vapor Pressure	Not available
Vapor Density	Not applicable
Relative Density	1.66 g/cm ³ calculated
Solubility	Soluble in water – 133 g/100 mL
Partition Coefficient (n-Octanol/Water)	-1.72
Decomposition Temperature °C	175°C
Viscosity	Not applicable

10 Stability and Reactivity

Reactivity	Stable at normal temperatures and pressure.
Chemical stability	This product is stable when used in accordance with the label instructions.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Excessive heat and sources of ignition, direct sunlight and frost.
Incompatible materials	Avoid strong acids, other alkalis and oxidizing agents.
Hazardous decomposition products	Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

11 Toxicological Information

Likely route of exposure	Eye, skin, inhalation and ingestion
Symptoms	
Eyes	Eye contact will cause severe irritation, reddening, lacrimation and pain with risk of irreversible eye damage.
Skin	May cause irritation, redness.
Inhalation	Irritation of airways, coughing, headache.
Ingestion	Ingestion may cause damage to the gastrointestinal tract.

Safety Data Sheet
In accordance with US Hazard Communication Standard, 2012



Delayed effects from short- and long-term exposure	Not anticipated.
Carcinogenicity	No component of this product present at concentrations greater than or equal to 0.1% has been identified as a probable, possible or recognized human carcinogen by IARC.
Mutagenicity	Based on available data the hazard classification is not met.
Reproductive toxicity	Based on available data the hazard classification is not met.
Other effects	To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

Numerical measures of toxicity including ATEs	LD₅₀ Oral (mg/kg)	LD₅₀ Dermal (mg/kg)	LC₅₀ (Gas, Vapor, Mist, Fume)
Citric acid monohydrate	5750 mouse	>2000 rabbit	Not available

12 Ecological Information

Ecotoxicity, if available	Citric acid: LC50 440 mg/L leuciscus idus melanotus 48 hours LC50 1535 mg/L daphnia magna 24 hours
Persistence and biodegradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	Soluble and mobile in soil and water.
Other adverse effects	Prevent entry to waterways.

13 Disposal Considerations

Disposal instructions	Dispose of unused contents (incineration) in accordance with national and local regulations.
Disposal methods	Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate. See section 8 for recommendations on the use of personal protective equipment.

14 Transportation Information

UN Number	Not hazardous
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Proper Shipping Name	Not hazardous
Hazard Class(es)	Not applicable
Packing Group	Not applicable
Environmental Hazards	Not hazardous during transportation
Special precautions	Not applicable
Label	None
Classification Statement	This product has been classified in accordance 49CFR DOT regulations.

15 Regulatory Information

US TSCA Inventory Status	All ingredients appear on the TSCA inventory (including the anhydrous form of the hydrate)
Significant New Use Rule	None
OSHA SARA III	
Emergency Planning (301-303)	None
Emergency Release (304)	None
Storage reporting (311-312)	Reportable
CERCLA reportable quantity	None
Hazardous Air Pollutants (HAPS)	None
California Proposition 65	None
HMIS	2-0-0

16 Other Information

Date of the latest revision	September 16, 2022
Revision number	1
Revision details	New
Abbreviations	CERCA – Comprehensive Environmental Response, Compensation and Liability Act EPCRA – Emergency Planning and Community Right to Know Act HMIS – Hazardous Materials Identification System – American Coatings Association OSHA – Occupational Safety and Health Administration SARA – Superfund Amendments and Reauthorization Act TSCA – Toxic Substances Control Act

Safety Data Sheet
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