



VISION DESCALER

custom production

date of issue:	9. 2. 2017	revision no.:	-
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SECTION 1: Identification of the substance/mixture and of the company/undertaking:

1.1. Product identifier:

Trade name: **VISION DESCALER**

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

Relevant identified uses: Cleaning and descaling agent for steam ovens.
Uses advised against: The product should not be used in other ways than listed in Section 1.

1.3. Details of the supplier of the safety data sheet:

Supplier:	Everstar s.r.o.
Place of business/registered office:	Bludovská 18, 787 01 Šumperk,
Telephone:	+420 583 301 070
Email of competent person:	everstar@everstar.cz

1.4. Emergency telephone number:

National Poisons Information Centre
Beaumont Hospital
PO Box 1297
Beaumont Road
Dublin 9
Healthcare Professionals: +353 (01) 809 2566 (24 hour service)

SECTION 2: Hazards identification:

2.1. Classification of the substance or mixture:

Classification according to (ES) 1272/2008
Eye Irrit. 2; H319

For the full texts of the H-statements see Section 16.

Adverse physicochemical effects:

Not expected

Adverse health and environmental effects:

Causes serious eye irritation.

2.2. Label elements

Labelling according to (ES) 1272/2008

hazard pictogram:



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Signal word: Warning
Hazard statement: H319 Causes serious eye irritation.

Precautionary statement: P101: If medical advice is needed, have product container or label at hand.
P280: Wear eye protection.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313: If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Mixture does not meet the criteria for PBT or vPvB.

SECTION 3: Composition/information on ingredients:

3.2. Mixtures:

Component identifier	CAS number ES number Indexov number REACH number	Concentration (% by wt)	Classification 1272/2008
Citric acid monohydrate	5949-29-1	98 - 100	Eye Irrit. 2, H319

For the full texts of the H-statements see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If health problems occur or if in doubt, call medical help and provide medical staff with information from this Safety Data Sheet. If unconscious, place the patient onto the recovery position (on the side with the head tilted slightly back) and make sure the airways are clear; never induce vomiting. If vomiting spontaneously, prevent the patient from aspirating the vomit.

Inhalation

Effects are normally not expected. In other cases take the affected person to fresh air and keep him/her warm and at rest (both physically and mentally). Immediately seek medical help.



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Eye contact

Remove contact lenses. Rinse wide-open eyes with lukewarm running water for 10-15 minutes, seek medical help.

Skin contact

Take all contaminated clothing off immediately. Wash affected skin with soap and warm water.

Ingestion

Place the affected person into a resting position. Rinse mouth with water (only if the person is conscious); never induce vomiting. Seek medical help immediately and show the mixture packaging or the label.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

Normally are not expected.

Skin contact

Normally are not expected.

Eye contact

Irritation, reddening, lacrimation, pain. Risk of irreversible eye damage.

Ingestion

Irritation, nausea.

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

No special treatment is specified. Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol resistant foam, CO₂, powder, water mist, water spray jet.

Unsuitable extinguishing media: full - water jet.

5.2. Special hazards arising from the substance or mixture:

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 damages to health

5.3. Advice for firefighters:

Advice shall be provided on any protective actions to be taken during firefighting, such as "keep containers cool with water spray", and on special protective equipment for firefighters, such as boots, overalls, gloves, eye and face protection and breathing apparatus.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

The mixture is non-flammable. Provide sufficient ventilation. Use protective goggles or face shield, protective clothing, and gloves. Proceed according to the directions given in Sections 7 and 8..

6.2. Environmental precautions

Prevent contamination of soil and release to surface and ground waters and to the sewerage..

6.3. Methods and material for containment and cleaning up

Contain the spilt mixture with a suitable (non-flammable) absorbing material (sand, diatomaceous earth, soil, and other suitable materials), place it in well closed vessels, and dispose of as specified in Section 13. Dispose of the collected material in accordance with locally valid regulations. In case of large releases, inform fire brigade and environmental department of the municipal authority. After removing the mixture, wash the contaminated area with a large quantity of water or a suitable cleaning agent. Do not use solvents.

6.4. Reference to other sections

See Sections 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent the formation of gases and vapours in concentrations exceeding the highest permissible concentrations for workplace atmosphere. Use the mixture only in places where it cannot come to contact with naked flames and other sources of ignition. Do not smoke. Protect from direct sunlight. Do not inhale gases and vapours. Prevent contact with skin and eyes. Use personal protective equipment specified in Section 8. Observe valid legal regulations related to work safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in dry, cool, and well-ventilated rooms, in original, tightly-closed vessels. Protect from direct sunlight.

7.3. Specific end use(s)

Not specified.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No.

8.2. Exposure controls

Observe usual occupational safety measures, particularly good ventilation. This may be achieved only by local extraction or efficient general ventilation. If PEL values cannot be met, suitable respiratory protection must be used. Do not eat, drink or smoke at work. Wash hands thoroughly with soap and water after finishing work and before taking a break.

Eye/face protection: Use protective goggles or face shield at work (according to the character of the



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work executed).

Skin protection:

hand protection: Not necessary, but it is recommended to wear protective gloves resistant to the product, protective clothing. Impermeable gloves acc. to EN 374, code letter A, K, L. Class 6. Observe other recommendations of the manufacturer.

other: Work clothing. When spilled on skin, wash thoroughly.

Respiratory protection: Not required at sufficient ventilation. With insufficient ventilation use a respirator or other suitable respiratory protection

Thermal hazard: No.

Environmental exposure controls: Prevent releases to soil and waters.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

a) Appearance, colour:	solid (20°C), white
b) odour:	After ingredients used
c) Odour threshold	Data not available
d) pH:	ca. 2,2 (1% solution, 20 °C)
e) Melting point/freezing point	Data not available
f) Initial boiling point and boiling range:	Data not available
g) flash point:	Data not available
h) Evaporation rate:	Data not available
i) Flammability (solid, gas):	not given
j) Upper/lower flammability or explosive limits;	Data not available
k) vapour pressure;	Data not available
l) Vapour density:	Data not available
m) relative density;	ca. 1,66
n) solubility;	ca. 133 g/100 ml
o) Partition coefficient: n-octanol/water;;	Data not available
p) Auto-ignition temperature;	Data not available
q) Decomposition temperature;	Data not available
r) Viscosity;	Data not available
s) Explosive properties;	Data not available
t) Oxidising properties;	Data not available

9.2. Other information

Not available

SECTION 10: Stability and reactivity:

10.1. Reactivity

Data not available.

10.2. Chemical stability

Stable at normal temperature and pressure.





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10.3. Possibility of hazardous reactions

No hazardous reactions occur.

10.4. Conditions to avoid

Protect from naked flame, sparks, overheating, and frost.

10.5. Incompatible materials

Keep separate from strong acids, alkalis, and oxidising agents in order to prevent the occurrence of hazardous exothermic reactions.

10.6. Hazardous decomposition products

None is formed at a normal method of use. Hazardous products, such as carbon monoxide, carbon dioxide, smoke and nitrogen oxides, are formed high temperatures and in fire..

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- a) **acute toxicity:** based on available data, the classification criteria are not met
- b) **skin corrosion/irritation:** based on available data, the classification criteria are not met.
- c) **serious eye damage/irritation:** causes serious eye irritation
- d) **respiratory or skin sensitisation:** based on available data, the classification criteria are not met
- e) **germ cell mutagenicity;** based on available data, the classification criteria are not met
- f) **carcinogenicity;** based on available data, the classification criteria are not met
- g) **reproductive toxicity;** based on available data, the classification criteria are not met
- h) **STOT-single exposure** based on available data, the classification criteria are not met
- i) **STOT-repeated exposure;** based on available data, the classification criteria are not met
- j) **aspiration hazard;** based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Data for mixture are not available.

Acute toxicity of components:

Citric acid:

LC50, fish, 48 h	440 mg/l (Leuciscus idus melanotus)
LC50, Daphnia, 24 h	1535 mg/l (Daphnia magna)

12.2. Persistence and degradability

The surfactants contained in the preparation correspond to the requirements of the European Communities on



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biodegradability of surfactants (648/2004 EC). The surfactants contained in the preparation are in accordance with the biodegradation criterion according to EU Regulation 648/2004 on detergents. Data confirming this statement are available for competent institutions of the EU member states upon their direct request.

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

The product is soluble and mobile in soil and water. Possible contamination of watercourses due to rain.

12.5. Results of PBT and vPvB assessment

The preparation has no PBT or vPvB properties; assessed acc. to Annex XIII to REACH Regulation

12.6. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Unused remnants and preparation are to be disposed of as hazardous waste. Proceed according to the regulations on the disposal of special waste on a secured dump site for this waste, or in a hazardous waste incineration plant. Product packaging should be emptied as much as possible. Cleaned packaging may be recycled. Sewage disposal shall be discouraged.

SECTION 14: Transport information

14.1. UN number

Not hazardous for the transport

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

Mixtur eis not hazardous for the environment during the transport.

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not transported in bulk

Additional information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Make sure



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that the driver is aware of the potential hazards of the load, and be instructed on how to proceed in case of accident or danger.

SECTION 15: Regulatory information

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

Regulation EC 1907/2006 (REACH), Regulation EC 1272/2008 (CLP), Regulation EC 648/2004 on detergents.

15.2. Chemical safety assessment

Has not been performed

SECTION 16: Other information

- a) Changes that have been made to the previous version of the safety data sheet: no
- b) legend to abbreviations and acronyms used in the safety data sheet:

CAS	unique numerical identifier assigned by Chemical Abstracts Service (CAS) to every chemical substance
CLP	Regulation EC1272/2008
EC50	half maximal effective concentration
IC50	half maximal inhibitory concentration
LC50	lethal concentration
LD50	median lethal dose
EINECS	European Inventory of Existing Commercial Chemical Substances
ICAO	International Civil Aviation Organization
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships
REACH	Regulation EC 1907/2006
PBT	persistent, bioaccumulative and toxic substances
vPvB	very persistent and very bioaccumulative substances
PEL	Permissible exposure limit
Eye Irrit.	Serious eye irritation
- c) key literature references and sources for data: Safety Data Sheet was compiled with data from the manufacturer's safety data sheets and data from ECHA database.
- d) methods of evaluating for the purpose of classification according to 1272/2008 (EC): calculation method
- e) list of relevant hazard statements:

H319 Causes serious eye irritation.
- f) advice on any training appropriate for workers to ensure protection of human health and the environment: Acquaint workers with the recommended method of use, mandatory protective equipment, first aid measures, and prohibited handling with the mixture.

Other information

The Safety Data Sheet contains data for ensuring occupational safety and health protection and environmental protection. The data given correspond to the present state of knowledge and experience and comply with valid legal regulations. They may not be considered a guarantee of suitability and usability of the product for particular applications.