evoDescaler

custom production

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This safety data sheet is english version of czech MSDS and is intended only for internal use. This safety data sheet is not intended to place the evoDescaler on the market.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: **evoDescaler**
UFI: 6AT2-J0G3-A00A-JH96

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, Czech Republic
Telephone: +420 583 301 070; www.everstar.cz
Email of competent person: everstar@everstar.cz

1.4. Emergency telephone number

112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (ES) No 1272/2008
Skin Irrit. 2, H315
Eye Irrit. 2, H319
Aquatic Chronic 3, H412
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. Causes skin irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008
Hazard pictogram:



Signal word: Warning
Hazard statement: H315 Causes skin irritation
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement: P101 If medical advice is needed, have product container or label at hand.

P280 Wear protective gloves and 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.
P302 + P352 IF ON SKIN: Wash with plenty of water

2.3. Other hazards

The mixture does not meet the criteria for PBT or vPvB according to Annex VIII to the REACH Regulation. The mixture contains no substances identified as endocrine disruptors or substances on the candidate list for inclusion into Annex XIV to REACH.

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
Sulphamic acid	5329-14-6 226-218-8 016-026-00-0 01-2119488633-28-XXXX	< 95	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Malic acid	617-48-1 210-514-9 	5 - 10	Eye Irrit.2, H319
Alcohols C16-18 ethoxylated	68439-49-6 931-992-1 unavailable	< 1	Eye Irrit.2, H319

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

Composition according to EC-Regulation 648/2004: less than 5 % non-ionic surfactants.

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.

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
Irritation.

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
The mixture is non-flammable, use extinguishing media appropriate to the nature of the fire.

5.2. Special hazards arising from the substance or mixture
Not known.

5.3. Advice for firefighters
Use normal protective clothing. Follow normal provisions in case of chemical fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
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 work executed).

Skin protection:

hand protection: 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

9.1. Information on basic physical and chemical properties

a) Physical state: solid at 20°C
b) Colour: white
c) Odour: After ingredients used
d) Melting point/freezing point: data is not available
e) Boiling point or initial boiling point and boiling range: not given
f) Flammability: not given
g) Lower and upper explosion limit: data is not available
h) Flash point: data is not available
i) Auto-ignition temperature: data is not available
j) Decomposition temperature: data is not available
k) pH: ≈ 1 (1% solution at 20 °C)
l) Kinematic viscosity: data is not available

m) Solubility: soluble
n) Partition coefficient n-octanol/water (log value): data is not available
o) Vapour pressure: data is not available
p) Density and/or relative density: data is not available
q) Relative vapour density: data is 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.

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 hazard classes as defined in Regulation (EC) No 1272/2008

a) **acute toxicity:** based on available data, the classification criteria are not met
b) **skin corrosion/irritation:** Causes skin irritation.
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

11.2. Information on other hazards

Data is no avalible.

SECTION 12: Ecological information

12.1. Toxicity

Data for mixture are not available.

Sulphamic acid
LC50, 96 h, fish: 70,3 mg/l (Pimephales promelas)
EC50, 72 h, algae: 48 mg/l (Desmodesmus subspicatus)

12.2. Persistence and degradability
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
Based on available data, the classification criteria are not met.

12.6. Endocrine disrupting properties
Data is not available.

12.7. Other adverse effects
Data is 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 or ID number
UN 2967

14.2. UN proper shipping name
Sulphamic acid

14.3. Transport hazard class(es)
8



14.4. Packing group
III

14.5. Environmental hazards
Harmful to aquatic life with long lasting effects.

14.6. Special precautions for user
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14.7. Maritime transport in bulk according to IMO instruments
Not transported in bulk.

Additional information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Make sure 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) No 1272/2008 of the European Parliament and of the Council of 16 December 2008
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006
Commission Regulation (EU) 2015/830 of 28 May 2015
OSHA (Occupational Safety & Health Administration)

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: Section 1.

b) legend to abbreviations and acronyms used in the safety data sheet:

CAS	unique numerical identifier assigned by Chemical Abstracts Service (CAS) to every hemical 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
Skin Irrit	Skin Irritation
Aquatic Chronic	Harmful to aquatic life with long lasting effects

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.
H315 Causes skin irritation.
H412 Harmful to aquatic life with long lasting effects.

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.