

# MATERIAL SAFETY DATA SHEET

according to the Commission Regulation (EU) No 453/2010, Annex II

Date of compilation : 29. 04. 2014

Page 1 ( 10 )

Revision date:

Revision:

Product name: **CARLSON - ANTI-FREEZE -65°C**

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier: **CARLSON – ANTI-FREEZE -65°C**

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

Relevant identified uses: anti-freeze windscreen liquid (screen-wash)

Uses advised against: The mixture should not be used for any other purpose than for which it is intended.

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

Supplier identification:

Name or trade name: FILSON s.r.o.

Headquarters: Slévačská 902, 198 00 Praha 9

Company registration number  
(IČ) 47549947

Telephone number: +420 267710620-1

E-mail info@filson.cz

E-mail of the competent person responsible for Material Safety Data Sheet: [gabrielaslavikova@seznam.cz](mailto:gabrielaslavikova@seznam.cz)

1.4. Emergency telephone number

Toxicological Information Centre (Toxikologické informační středisko), Na Bojišti 1, 128 08 Praha 2 - Phone: 224919293, 224915402 (nonstop)

Emergency service (Integrovaný záchranný systém) : 112

## SECTION 2. Hazards identification

2.1. Classification of the substance or mixture:

Classification according to the Directive 1999/45/EC:

Classification: Highly flammable

R Phrases codes: R11

Classification according to the Regulation (EC) No1272/2008:

Hazard class: flammable liquid, eye irritation

Hazard class(es) and category codes: Flam. Liq. 2, Eye Irrit. 2

Hazard symbol:



Hazard statements codes: H225, H319

For the full text for all R and H phrases – refer to Section 16 of this Material Safety Data Sheet.

2.2. Label elements:

Classification according to the Directive 1272/2008/EC:

Hazard symbol:



Signal word: Danger

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Names of hazardous ingredients: ---

H phrases (Hazard statements):

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

P phrases ( Precautionary statements)

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

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

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.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other elements:

Tactile warning:yes

Child-resistant cap: No

2.3. Other hazards:

Fulfilling PBT and vPvB criteria: Not applicable

## SECTION 3. Composition/ information on ingredients

3.1. Substances: ---

3.2. Mixtures:

Product contains following hazardous substances:

Classification according to the Directive 1999/45/EC:

Chemical name/ CAS-Reg No, EINECS No, Index No, Registration No	Indication of danger, Symbol letter(s), R phrases	Content %
Ethanol CAS 64-17-5, ES 200-578-6 Index No: 603-002-00-5 Registration No:01-2119457610-43	F; R11	< 80
Ethan-1,2-diol CAS 107-21-1, ES 203-473-3 Index No: 603-027-00-1 Registration No:01-2119456816-28	Xn; R22	< 5
Butanone CAS 78-93-3, ES 201-159-0 Index No: 606-002-00-3 Registration No:01-2119457290-43	F; R11 Xi; R36 R66 R67	< 2
Sodium laureth sulfate CAS 68585-34-2, ES 500-223-8	Xi;R38 Xi;R41	< 0,2

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Classification according to the Regulation (EC) No 1272/2008:

Chemical name/ CAS-Reg No, EINECS No, Index No, Registration No	Hazard class(es) and category codes Hazard statements codes	Content (%)
Ethanol CAS 64-17-5, ES 200-578-6 Index No: 603-002-00-5 Registration No:01-2119457610-43	Flam. Liq. 2, H225 Eye Irrit. 2, H319	< 80
Ethan-1,2-diol CAS 107-21-1, ES 203-473-3 Index No: 603-027-00-1 Registration No:01-2119456816-28	Acute Tox. 4, H302 STOT RE 2, H373	< 5
Butanone CAS 78-93-3, ES 201-159-0 Index No: 606-002-00-3 Registration No:01-2119457290-43	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	< 2
Sodium laureth sulfate CAS 68585-34-2, ES 500-223-8	Eye Dam. 1, H318 Skin Irrit. 2, H315	< 0,2

For the full text for all R and H phrases refer to Section 16 of this Material Safety Data Sheet.

The product contains following substances according to the Regulation (EC) No 648/2004 on Detergents:

Chemical name	Content (%)
anionic surfactants	< 0,2
perfume	
LIMONENE	
Colour agent	

## SECTION 4. First aid measures

### 4.1. Description of first aid measures:

General measures:

In serious cases, seek immediately medical advice. **Do not induce vomiting!** Any personal protective equipment for first aid responders is not recommended.

Skin contact : Remove contaminated clothing. Immediately flush contaminated place with water and soap, treat with regenerative cream. If irritation continues, seek medical advice.

Eye contact : Immediately flush with plenty of water for up to 15 minutes and open eyes wide apart. If irritation continues, seek medical advice.

Inhalation : Stop exposure and move exposed person to fresh air. If symptoms occur, seek medical advice.

Ingestion : **Do not induce vomiting !** Wash out mouth with water. If symptoms occur, seek medical advice

4.2. Most important symptoms and effects, both acute and delayed: : Eye contact: burning, redness, lacrimation  
Inhalation: headache, dizziness, nausea, disorders of consciousness If swallowed: nausea, vomiting, impaired coordination and articulation ( Symptoms similar to drunkenness).

Skin contact: possible irritation, redness of skin

4.3. Indication of any immediate medical attention and special treatment needed: : Procedure determined by the doctor.

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## SECTION 5. Firefighting measures

- 5.1. Extinguishing media:
  - Suitable extinguishing media : water jet, dry powder extinguishers, alcohol-resistant foam
  - Unsuitable extinguishing media : full water jet
- 5.2. Special hazards arising from the substance or mixture : in case of fire, toxic gases may be formed, e.g. carbon oxides
- 5.3. Advice for firefighters : depending on extent of fire – protective clothing for fire-fighting, breathing mask, breathing apparatus.

## SECTION 6. Accidental Release Measures

- 6.1. Personal precautions, protective equipment and emergency procedures:

No smoking. Keep away from possible sources of ignition. Provide adequate ventilation. Avoid contact with the product – protect eyes and skin.
- 6.2. Environmental precautions:

Prevent release into sewerage and water. In case of entry into sewerage or watercourses, inform immediately sewerage administrator (watercourses administrator).
- 6.3. Methods and material for containment and cleaning up:

Appropriate containment techniques:  
Collect spillage with non-combustible, absorbent material (sand, diatomaceous earth, universal absorbent material), cover drains.

Appropriate cleaning-up procedures:  
Waste collect to appropriate containers. Clean up preferably with a detergent. If possible, do not use solvents. Dispose according to local regulations.
- 6.4. Reference to other sections:

For more information refer to sections 7, 8, 13

## SECTION 7. Handling and storage

- 7.1. Precaution for safe handling:

Recommendations:  
Take precautionary measures against static discharges. Risk of explosion of vapours in small unventilated areas. Keep away from sources of ignition - No smoking. When using do not eat or drink. Avoid contact with skin and eyes. Do not breathe vapour and spray. Wear suitable protective equipment. Use only for intended purpose.

General occupational hygiene:  
Do not eat, drink and smoke while working. Wash hands after work. For personal protective equipment refer to section 8. Respect statutory rules about occupational safety and health.
- 7.2. Conditions for safe storage, including any incompatibilities:

Store at temperatures until +25°C, in dry, sheltered and well ventilated places. Keep out of reach of children. Keep away from sources of ignition - No smoking. Protect from direct sunlight. Possible reactions with strong oxidizing agents, acids, alkali metals, etc.

Minimum durability date is 4 years from manufacture date.
- 7.3. Specific end use(s): See subsection 1.2 of the MSDS

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## SECTION 8. Exposure Controls/Personal Protection

- 8.1. Control parameters : **Ethanol** permissible exposure limit (PEL): 1.000 mg.m<sup>-3</sup>.  
maximum permissible concentration (NPK-P): 3.000 mg.m<sup>-3</sup>.  
**Ethan-1,2-diol**: permissible exposure limit (PEL): 50 mg.m<sup>-3</sup>.  
maximum permissible concentration (NPK-P): 100 mg.m<sup>-3</sup>.  
**2-butanone**: permissible exposure limit (PEL): 600 mg.m<sup>-3</sup>.  
maximum permissible concentration (NPK-P): 900 mg.m<sup>-3</sup>

DNEL (derived no-effect level)

### **Ethanol -worker:**

DNEL Inhalation, long-term, systemic effect : 950 mg/m<sup>3</sup>

DNEL Inhalation, short-term, systemic effect : 1900 mg/m<sup>3</sup>

DNEL Dermal, long-term, systemic effect : 343 mg/kg/day

### **Ethanol-consumer:**

DNEL Inhalation, long-term, systemic effect : 114 mg/m<sup>3</sup>

DNEL Inhalation, short-term, systemic effect : 950 mg/m<sup>3</sup>

DNEL Oral, long-term, systemic effect : 87 mg/kg/day

DNEL Dermal, long-term, systemic effect : 206 mg/kg/day

### **Ethan-1,2-diol -worker:**

DNEL Inhalation, long-term, local effect : 35 mg/m<sup>3</sup>

DNEL Dermal, long-term, systemic effect : 106 mg/kg/day

### **Ethan-1,2-diol -consumer:**

DNEL Inhalation, long-term, local effect : 7 mg/m<sup>3</sup>

DNEL Dermal, long-term, systemic effect : 53 mg/kg/day

### **Butanone -worker:**

DNEL Inhalation, long-term, systemic effect : 600 mg/m<sup>3</sup>

DNEL Dermal, long-term, systemic effect : 1161 mg/kg/day

### **Butanone -consumer:**

DNEL Inhalation, long-term, systemic effect : 106 mg/m<sup>3</sup>

DNEL Dermal, long-term, systemic effect : 412 mg/kg/day

DNEL Oral, long-term, systemic effect : 31 mg/kg/day

- 8.2. Exposure controls:
- 8.2.1. Appropriate engineering controls: Ensure adequate ventilation, if necessary local exhaust ventilation.
- 8.2.2. Individual protection measures, such as personal protective equipment:  
Eye/face protection: protective goggles when handling large amounts of the product (EN 166)  
Skin protection:  
Hand protection:  
protective gloves - neoprene , PVC ( 0,4 mm)  
For prolonged, direct contact is the recommended protection index 6, which corresponds to > 480 minutes according to EN 374.  
Follow specific instructions from the manufacturer, including the time of use. If damaged, replace gloves immediately.  
Wash thoroughly hands and face with water and soap before breaks and at the end of the shift. At the end of the shift, treat hands with a protective cream.  
Other: protective clothing and shoes (antistatic).Keep equipment clean. After the contact with the mixture, wash the skin properly with soap and water and use a reparation cream. Remove contaminated clothing.  
Respiratory protection: protective mask with filter against organic vapours (type A)  
Thermal hazards: is not required when handling in the usual way
- 8.2.3. Environmental exposure limits:  
Due to the nature the product and method of use not required

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## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties:

Appearance	: liquid
Colour	: clear, blue
Odour	: perfume used
Odour threshold:	: Not defined
pH at 20°C	: 6 - 8
Melting point/ freezing point:	: - 65 °C
Initial boiling point and boiling range	: 78,3 °C ( ethanol)
Flash point	: < 23°C
Evaporation rate	: Not available
Flammability (solid, gas)	: Not applicable
Upper/lower flammability or explosive limits:	
Upper limit ( % vol.)	: 15 ( ethanol)
Lower limit ( % vol.)	: 3 ( ethanol)
Vapour pressure at 20 °C	: 5,8 kPa ( ethanol)
Vapour density at 20 °C	: 1,6 ( ethanol)
Relative density at 20°C	: 0,855 – 0,875 g/cm <sup>3</sup>
Solubility	: Soluble
Partition coefficient: n-octanol/water	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity	: Not available
Explosive properties	: does not have explosive properties
Oxidising properties	: No oxidizing properties
9.2. Other information	: Not indicated

## SECTION 10. Stability and reactivity

- 10.1. Reactivity: Test results are not available
- 10.2. Chemical stability:  
When using recommended storage and handling methods – stable (refer to section 7).
- 10.3. Possibility of hazardous reactions:  
Possible reactions with strong oxidizing agents, acids, alkali metals
- 10.4. Conditions to avoid: do not heat
- 10.5. Incompatible materials: Manufacturer does not indicate
- 10.6. Hazardous decomposition products: in case of fire, e.g. carbon oxides are formed

## SECTION 11. Toxicological information

- 11.1. Information on toxicological effects:
  - 11.1.1 Substances:
    - Acute toxicity:
    - LD<sub>50</sub>, Oral, Brown Rat: 7060 mg/kg ( Ethanol)
    - LD<sub>50</sub>, Dermal, Brown Rat or Rabbit: 6300 mg/kg ( Ethanol)
    - LC<sub>50</sub>, Inhalation, Brown Rat: 20000 mg/kg ( Ethanol)
    - LDL<sub>0</sub>, Oral, Human: approx. 100 ml ( Ethan-1,2-diol).
    - LD<sub>50</sub>, Oral, Brown Rat: 4700 mg/kg ( Ethan-1,2-diol)

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LD<sub>50</sub>, Oral, Mouse : 5500 mg/kg ( Ethan-1,2-diol)

LD<sub>50</sub>, Dermal, Brown Rat: 9530 mg/kg ( Ethan-1,2-diol)

LC<sub>50</sub>, Inhalation, Brown Rat: 10876 mg/kg ( Ethan-1,2-diol)

## 11.1.2 Mixtures:

The mixture itself is not tested, but it is classified according to the conventional method ( Directive 1999/45/ES) and according to the Regulation (EC) No 1272/2008.

Acute toxicity:

Ingestion of the mixture causes abdominal pain, headache, drowsiness, dizziness, state of drunkenness, nausea, vomiting, impaired coordination and articulation. This mixture is not classified as acutely toxic if swallowed.

Inhalation of spray or vapours may cause headache, drowsiness, dizziness, nausea.

Skin corrosion/irritation:

Short-term contact with the skin does not cause skin irritation, prolonged or repeated contact may cause irritation, redness of the skin. The mixture is not classified as corrosive or irritant to the skin .

Serious eye damage/irritation: In case of contact with eyes may cause eye irritation. The mixture causes eye irritation.

Respiratory or skin sensitisation: The mixture contains a substances with those effects (perfume).

However the mixture does not cause respiratory or skin sensitisation.

Germ cell mutagenicity: not detected. The mixture does not contain any substances with those effects.

Carcinogenicity: not detected. The mixture does not contain any substances with those effects.

Toxicity for reproduction: not detected

STOT-single exposure: The mixture contains a substances with those effects (Butanone). However the mixture is not classified as toxic to STOT – single exposure.

STOT-repeated exposure: The mixture contains a substance with those effects (Ethan-1,2-diol).

Affected organ: kidney. Route of exposure: Oral. However the mixture is not classified as toxic to STOT – repeated exposure.

Aspiration hazard: The mixture contains a substances with those effects. However, the mixture is not classified as hazardous when inhaled.

## SECTION 12. Ecological Information

### 12.1. Toxicity:

Toxicity for fish: LD<sub>50</sub>, 96 h, Cyprinus carpio: 1520 mg/l (ethanol)

Toxicity for invertebrates: EC<sub>50</sub>, 48 h, Daphnia magna: 9248 mg/l ( ethanol)

Toxicity for algae: EC<sub>50</sub>, 72 h: 5000 mg/l ( ethanol)

Toxicity for fish: LD<sub>50</sub>, 96 h, Salmo gairdneri: 18500 mg/l (Ethan-1,2-diol)

Toxicity for fish: LD<sub>50</sub>, 96 h, Oncorhynchus mykiss: 41000 mg/l (Ethan-1,2-diol)

Toxicity for fish: LD<sub>50</sub>, 96 h, Lepomis macrochirus: 18500 mg/l (Ethan-1,2-diol)

Toxicity for invertebrates: EC<sub>50</sub>, 48 h, Daphnia magna: 46300 mg/l ( Ethan-1,2-diol)

Toxicity for algae: EC<sub>50</sub>, 72 h: > 100 mg/l ( Ethan-1,2-diol)

Toxicity for microorganisms: EC<sub>50</sub>, 30 minutes, Phytobacterium phosphoreum: 620 mg/l ( Ethan-1,2-diol)

PNEC ( predicted no effect concentration)

#### **Ethanol**

PNEC, fresh water: 0,96 mg/l

PNEC, sea water: 0,79 mg/l

PNEC, freshwater sediments: 3,6 mg/kg

PNEC, marine sediments: 2,9 mg/kg

PNEC, land (agricultural): 0,63 mg/kg

PNEC, microorganisms in WWTP: 580 mg/l

#### **Ethan-1,2-diol**

PNEC, fresh water: 10 mg/l

PNEC, sea water: 1 mg/l

PNEC, freshwater sediments: 284,74 mg/kg

PNEC, marine sediments: 284,7 mg/kg

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PNEC, land (agricultural): 22,5 mg/kg

PNEC, microorganisms in WWTP: 709 mg/l

## **Butanone**

PNEC, fresh water: 55,8 mg/l

PNEC, sea water: 55,8 mg/l

PNEC, freshwater sediments: 37 mg/kg

PNEC, marine sediments: 3,7 mg/kg

PNEC, land (agricultural): 1,53 mg/kg

PNEC, microorganisms in WWTP: 199,5 mg/l

12.2. Persistence and degradability: Substances contained in the mixture are in terms of biodegradability in accordance with EEC Regulation No 648/2004.

CHSK: 1,82 mg O<sub>2</sub>, BSK<sub>5</sub>: 2,08 mg O<sub>2</sub> ( for ethanol)

## **Ethan-1,2-diol**

Biodegradability: 70% ( 5 days). The substance is easily biodegradable.

12.3. Bioaccumulative potential:

Partition coefficient: n-octanol/water - log Pow: 1,93 ( Ethan-1,2-diol)

Partition coefficient: n-octanol/water - log Pow: 0,3 (Sodium laureth sulfate)

12.4. Mobility in soil: the mixture is well miscible with water

12.5. Results of PBT and vPvB assessment: Not applicable

12.6. Other adverse effects: Unknown.

## **SECTION 13. Disposal consideration**

13.1. Waste treatment methods:

Do not dispose of with municipal waste. Do not pour into drains.

Recommended disposal : burning

Waste code 200113 (Municipal wastes – solvents). Waste category: N.

Recommended packaging disposal: Dispose of empty and clean containers with municipal waste. Not empty containers are hazardous waste, dispose of it to special and hazardous waste collection point .

## **SECTION 14. Transport Information**

14.1. UN number:

Kemler number: 30

UN number: 1170

14.2. UN proper shipping name: ETHANOL,SOLUTION (ETHYLALCOHOL, SOLUTION)

14.3. Transport hazard class(es): 3

14.4. Packing group: III

14.5. Environmental hazards:

Marine pollutant: No

14.6. Special precautions for user:

S2 Additional requirements for the transport of flammable liquids and gases

Transport category: 3

Limited quantity: 5 L

Classification Code: F1

Tunnel category: D/E

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable



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## SECTION 15. Regulatory information

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

COMMISSION REGULATION (EU) No 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals

94/3/EC: Commission Decision establishing a list of wastes pursuant to Article 1a of Council Directive 75/442/EEC on waste

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Detergents

COMMISSION REGULATION (EU) No 907/2006 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council 648/2004

on detergents, in order to adapt Annexes III and VII

Zákon č. 61/2014 Sb., kterým se mění zákon č. 350/2011 Sb., o chemických látkách a chemických směsích a o změně některých zákonů ( chemický zákon)

Zákon č. 20/1966 Sb., o péči o zdraví lidu

Nařízení vlády č. 9/2013 Sb., kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů

Zákon č. 185/2001 Sb., o odpadech a o změně některých dalších zákonů, v platném znění

Zákon č. 111/1994 Sb., o silniční dopravě a vyhláška č. 64/1987 Sb., o evropské dohodě o mezinárodní silniční přepravě nebezpečných věcí (ADR) ve znění pozdějších a souvisejících předpisů

### 15.2. Chemical safety assessment: Not carried out

## SECTION 16. Other information

- 16.1. The information contained in this Material Safety Data Sheet relates only to the product and not replace technical or quality specifications. All information and instructions provided in this Material Safety Data Sheet is based on the current state of knowledge and may not be accurate. This Material Safety Data Sheet is not an instruction manual - it is listed on the packaging label of each product. The manufacturer does not take other responsibility than for recommended use.
- 16.2. User is responsible for compliance with all relevant legislation to protect the health and for handling with the product according to existing laws and regulations.
- 16.3. List of R and H phrases referred to sections 2 and 3:
- |         |  |
|---------|--|
| R       | 11 - Highly flammable  |
| Phrases |  |
| :       |  |
|         | 22 - Harmful if swallowed.   |
|         | 36 - Irritating to eyes.   |
|         | 38 - Irritating to skin  |
|         | 41 - Risk of serious damage to eyes                                      |
|         | 66 - Repeated exposure may cause skin dryness or cracking.               |
|         | 67 - Vapours may cause drowsiness and dizziness                          |
| H       | 225 - Highly flammable liquid and vapour.                                |
| phrases |  |
|         | 302 - Harmful if swallowed.  |
|         | 315 - Causes skin irritation.  |
|         | 318 - Causes serious eye damage  |
|         | 319 - Causes serious eye irritation.                                     |
|         | 336 - May cause drowsiness or dizziness.                                 |
|         | 373 - May cause damage to organs through prolonged or repeated exposure. |
- 16.4. Contact point providing technical information – refer to subsection 1.3.
- 16.5. Changes in the Material Safety Data Sheet: ---

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Note: The original Material Safety Data Sheet is in Czech. This Material Safety Data Sheet is only the translation and adheres to the standards and regulatory requirements of the Czech Republic and may not meet the regulatory requirements in other countries. Any disputes will be resolved on the original text.

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## SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier: **CARLSON – WINDSCREEN DE-ICER**

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

Relevant identified uses: mixture for removing frost from windscreens - trigger

Uses advised against: The mixture should not be used for any other purpose than for the intended one.

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

Supplier identification:

Name or trade name: FILSON s.r.o.

Headquarters: Slévačská 902, 198 00 Praha 9

Company registration number  
(IČ) 47549947

Telephone number: +420 267710620-1

E-mail info@filson.cz

E-mail of the competent person responsible for Material Safety Data Sheet: [gabrielaslavikova@seznam.cz](mailto:gabrielaslavikova@seznam.cz)

1.4. Emergency telephone number

Toxicological Information Centre (Toxikologické informační středisko), Na Bojišti 1, 128 08 Praha 2 - Phone: 224919293, 224915402 (nonstop)

Emergency service (Integrovaný záchranný systém) : 112

## SECTION 2. Hazards identification

2.1. Classification of the substance or mixture:

Classification according to the Directive 1999/45/EC:

Classification: Flammable

R Phrases codes: R10

Classification according to the Regulation (EC) No 1272/2008:

Hazard class: Flammable liquid

Hazard class(es) and category codes: Flam. Liq. 3

Hazard symbol:



Hazard statements codes: H225

For the full text for all R and H phrases – refer to Section 16 of this Material Safety Data Sheet.

2.2. Label elements:

Classification according to the Directive 1272/2008/EC:

Hazard symbol:



Signal word: Warning.

Names of hazardous ingredients: ---

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H phrases (Hazard statements):

H226 Flammable liquid and vapour.

P phrases ( Precautionary statements)

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

P102 Keep out of reach of children.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P501 Dispose of contents/container to the collection point for hazardous or special waste.

Supplemental hazard information: shall not apply

Other elements:

Tactile warning: no

Child-resistant cap: No

2.3. Other hazards:

Fulfilling PBT and vPvB criteria: This mixture does not contain any substances assessed as PBT or vPvB.

## SECTION 3. Composition/ information on ingredients

3.1. Substances: ---

3.2. Mixtures:

Product contains following hazardous substances:

Classification according to the Directive 1999/45/EC:

Chemical name/ CAS-Reg No, EC No, Index No, Registration No	Indication of danger, Symbol letter(s), R phrases	Content %
Ethanol CAS 64-17-5, EC 200-578-6 Index No: 603-002-00-5 Registration No:01-2119457610-43	Highly flammable; F; R11	< 40
Ethan-1,2-diol CAS 107-21-1, EC 203-473-3 Index No: 603-027-00-1 Registration No:01-2119456816-28	Harmful; Xn; R22	< 10
Butanone CAS 78-93-3, EC 201-159-0 Index No: 606-002-00-3 Registration No:01-2119457290-43	Highly flammable; F; R11 Irritant; Xi; R36 R66 R67	< 1
Sodium laureth sulfate CAS 68585-34-2, EC 500-223-8	Irritant; Xi;R38 Irritant; Xi;R41	< 0,2

Classification according to the Regulation (EC) No 1272/2008:

Chemical name/ CAS-Reg No, EC No, Index No, Registration No	Hazard class(es) and category codes H phrases	Content (%)
Ethanol CAS 64-17-5, EC 200-578-6 Index No: 603-002-00-5 Registration No:01-2119457610-43	Flam. Liq. 2, H225 Eye Irrit. 2, H319	< 40
Ethan-1,2-diol	Acute Tox. 4, H302	< 10

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CAS 107-21-1, EC 203-473-3 Index No: 603-027-00-1 Registration No:01-2119456816-28	STOT RE 2, H373	
Butanone CAS 78-93-3, EC 201-159-0 Index No: 606-002-00-3 Registration No:01-2119457290-43	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	< 1
Sodium laureth sulfate CAS 68585-34-2, EC 500-223-8	Eye Dam. 1, H318 Skin Irrit. 2, H315	< 0,2

For the full text for all R and H phrases refer to Section 16 of this Material Safety Data Sheet.

The product contains following substances according to the Regulation (EC) No 648/2004 on Detergents:

Chemical name	Content (%)
anionic surfactants	< 0,2
Colour agent	

## SECTION 4. First aid measures

### 4.1. Description of first aid measures:

General measures:

In serious cases, seek immediately medical advice. **Do not induce vomiting!** Any personal protective equipment for first aid responders is not recommended. Symptoms of poisoning may even occur after several hours; therefore medical observation necessary for at least 48 hours after ingestion.

- Skin contact : Remove contaminated clothing. Immediately flush contaminated place with water and soap, treat with regenerative cream. If irritation continues, seek medical advice.
- Eye contact : Immediately flush with plenty of water for up to 15 minutes and open eyes wide apart. If irritation continues, seek medical advice.
- Inhalation : Stop exposure and move exposed person to fresh air. If symptoms occur, seek medical advice.
- Ingestion : **Do not induce vomiting !** Wash out mouth with water. If symptoms occur, seek medical advice
- 4.2. Most important symptoms and effects, both acute and delayed: : Eye contact: may cause burning, redness, acclimation  
Inhalation: headache, dizziness, nausea, disorders of consciousness If swallowed: nausea, vomiting, impaired coordination and articulation ( Symptoms similar to drunkenness).  
Skin contact: possible irritation, redness of skin
- 4.3. Indication of any immediate medical attention and special treatment needed: : Procedure determined by the doctor.

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media:

- Suitable extinguishing media : water jet, dry powder extinguishers, alcohol-resistant foam
- Unsuitable extinguishing media : full water jet

### 5.2. Special hazards arising from the substance or mixture

: in case of fire, toxic gases may be formed, e.g. carbon oxides

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- 5.3. Advice for firefighters : depending on extent of fire – protective clothing for fire-fighting, breathing mask, breathing apparatus.

## SECTION 6. Accidental Release Measures

- 6.1. Personal precautions, protective equipment and emergency procedures:  
No smoking. Keep away from possible sources of ignition. Provide adequate ventilation. Avoid contact with the product – protect eyes and skin.
- 6.2. Environmental precautions:  
Prevent release into sewerage and water. In case of entry into sewerage or watercourses, inform immediately sewerage administrator (watercourses administrator).
- 6.3. Methods and material for containment and cleaning up:  
Appropriate containment techniques:  
Fence spillage with non-combustible, absorbent material (sand, diatomaceous earth, universal absorbent material), cover drains.  
Appropriate cleaning-up procedures:  
Waste collect to appropriate containers. Clean up preferably with a detergent. If possible, do not use solvents. Dispose according to local regulations.
- 6.4. Reference to other sections:  
For more information refer to sections 8 and 13

## SECTION 7. Handling and storage

- 7.1. Precaution for safe handling:  
Recommendations:  
Take precautionary measures against static discharge. Risk of explosion of vapours in small unventilated areas. Keep away from sources of ignition - No smoking. When using do not eat or drink. Avoid contact with skin and eyes. Do not breathe vapour and spray. Wear suitable protective equipment. Use only for intended purpose.  
General occupational hygiene:  
Do not eat, drink and smoke while working. Wash hands after work. For personal protective equipment refer to section 8. Respect statutory rules about occupational safety and health.
- 7.2. Conditions for safe storage, including any incompatibilities:  
Store at temperatures until +25°C, in dry, sheltered and well ventilated places. Keep out of reach of children. Keep away from sources of ignition - No smoking. Protect from direct sunlight. Possible exothermic reactions with strong oxidizing agents, acids, alkali metals, etc.  
Minimum durability date is 4 years from manufacture date.
- 7.3. Specific end use(s): See subsection 1.2 of the MSDS

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## SECTION 8. Exposure Controls/Personal Protection

- 8.1. Control parameters: **Ethanol** permissible exposure limit (PEL): 1.000 mg.m<sup>-3</sup>  
maximum permissible concentration (NPK-P): 3.000 mg.m<sup>-3</sup>  
**Ethan-1,2-diol**: permissible exposure limit (PEL): 50 mg.m<sup>-3</sup>  
maximum permissible concentration (NPK-P): 100 mg.m<sup>-3</sup>  
**2-butanone**: permissible exposure limit (PEL): 600 mg.m<sup>-3</sup>  
maximum permissible concentration (NPK-P): 900 mg.m<sup>-3</sup>

DNEL (derived no-effect level)

### **Ethanol -worker:**

DNEL Inhalation, long-term, systemic effect : 950 mg/m<sup>3</sup>

DNEL Inhalation, short-term, local effect: 1900 mg/m<sup>3</sup>

DNEL Dermal, long-term, systemic effect : 343 mg/kg/day

### **Ethanol-consumer:**

DNEL Inhalation, long-term, systemic effect : 114 mg/m<sup>3</sup>

DNEL Inhalation, short-term, local effect: 950 mg/m<sup>3</sup>

DNEL Dermal, long-term, systemic effect : 206 mg/kg/day

DNEL Oral, long-term, systemic effect : 87 mg/kg/day

### **Ethan-1,2-diol -worker:**

DNEL Inhalation, long-term, local effect: 35 mg/m<sup>3</sup>

DNEL Dermal, long-term, systemic effect : 106 mg/kg/day

### **Ethan-1,2-diol –consumer:**

DNEL Inhalation, long-term, local effect: 7 mg/m<sup>3</sup>

DNEL Dermal, long-term, systemic effect : 53 mg/kg/day

### **Butanone -worker:**

DNEL Inhalation, long-term, systemic effect : 600 mg/m<sup>3</sup>

DNEL Dermal, long-term, systemic effect : 1161 mg/kg/day

### **Butanone –consumer:**

DNEL Inhalation, long-term, systemic effect : 106 mg/m<sup>3</sup>

DNEL Dermal, long-term, systemic effect : 412 mg/kg/day

DNEL Oral, long-term, systemic effect : 31 mg/kg/day

PNEC ( predicted no effect concentration)

### **Ethanol**

PNEC, fresh water: 0,96 mg/l

PNEC, sea water: 0,79 mg/l

PNEC, water, occasional leak: 2,75 mg/l

PNEC, freshwater sediments: 3,6 mg/kg of sediment

PNEC, marine sediments: 2,9 mg/kg of sediment

PNEC, land (agricultural): 0,63 mg/kg of soil

PNEC, microorganisms in WWTP: 580 mg/l

PNEC, oral, food chain: 0,72 mg/kg of food

### **Ethan-1,2-diol**

PNEC, fresh water: 10 mg/l

PNEC, sea water: 1 mg/l

PNEC, water, occasional leak: 10 mg/l

PNEC, freshwater sediments: 37 mg/kg of sediment

PNEC, marine sediments: 3,7 mg/kg of sediment

PNEC, land (agricultural): 1,53 mg/kg of soil

PNEC, microorganisms in WWTP: 199,5 mg/l

PNEC, oral, food chain: no potential for bioaccumulation

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## Butanone

PNEC, fresh water: 55,8 mg/l

PNEC, sea water: 55,8 mg/l

PNEC, water, occasional leak: 55,8 mg/l

PNEC, freshwater sediments: 284,74 mg/kg of sediment

PNEC, marine sediments: 284,7 mg/kg of sediment

PNEC, land (agricultural): 22,5 mg/kg of soil

PNEC, microorganisms in WWTP: 709 mg/l

PNEC, oral, food chain: 1000 mg/kg of food

### 8.2. Exposure controls:

8.2.1 Appropriate engineering controls: Ensure adequate ventilation, if necessary local exhaust ventilation.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: protective goggles when handling large amounts of the product (EN 166)

Skin protection:

Hand protection: protective gloves - nitrile, neoprene , PVC ( 0,4 mm)

For prolonged, direct contact is the recommended protection index 6, which corresponds to > 480 minutes according to EN 374. Follow specific instructions from the manufacturer, including the time of use. If damaged, replace gloves immediately. Wash thoroughly hands and face with water and soap before breaks and at the end of the shift. At the end of the shift, treat hands with a protective cream.

Other: protective clothing and shoes (antistatic). Keep equipment clean. After the contact with the mixture, wash the skin properly with soap and water and use a reparation cream. Remove contaminated clothing.

Respiratory protection: protective mask with filter against organic vapours (type A)

Thermal hazards: is not required when handling in the usual way

8.2.3 Environmental exposure limits:

Due to the nature the product and method of use not required

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties:

Appearance	: liquid
Colour	: clear, blue
Odour	: alcoholic
Odour threshold:	: Not defined
pH at 20°C	: Approx. 8
Melting point/ freezing point:	: Not available
Initial boiling point and boiling range	: 78,3 °C ( ethanol)
Flash point	: Approx. 28 °C
Evaporation rate	: Not available
Flammability (solid, gas)	: Not applicable
Upper/lower flammability or explosive limits:	
Upper limit ( % vol.)	: 15 ( ethanol)
Lower limit ( % vol.)	: 3 ( ethanol)
Vapour pressure at 20 °C	: 5,8 kPa ( ethanol)
Vapour density at 20 °C	: 1,6 ( ethanol)
Relative density at 20°C	: 945 – 955 kg/m <sup>3</sup>
Solubility in water	: Soluble
Partition coefficient n-octanol/water	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity	: Not available
Explosive properties	: does not have explosive properties
Oxidising properties	: No oxidizing properties
9.2. Other information	: Not indicated



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## SECTION 10. Stability and reactivity

- 10.1. Reactivity: Test results are not available
- 10.2. Chemical stability:  
When using recommended storage and handling methods – stable (refer to section 7).
- 10.3. Possibility of hazardous reactions:  
Possible exothermic reactions with strong oxidizing agents, acids, alkali metals
- 10.4. Conditions to avoid: do not heat
- 10.5. Incompatible materials: strong oxidizing agents, acids, alkali metals, etc.
- 10.6. Hazardous decomposition products: When used for the intended use, it does not decompose.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects:

#### 11.1.1 Substances:

Acute toxicity:

LD<sub>50</sub>, Oral, Brown Rat: 7060 mg/kg ( Ethanol)

LD<sub>50</sub>, Dermal, Brown Rat or Rabbit: 6300 mg/kg ( Ethanol)

LC<sub>50</sub>, Inhalation, Brown Rat: 20000 mg/ m<sup>3</sup> ( ethanol)

LDL<sub>0</sub>, Oral, Human: approx. 100 ml ( Ethan-1,2-diol).

LD<sub>50</sub>, Oral, Brown Rat: 4700 mg/kg ( ethan-1,2-diol)

LD<sub>50</sub>, Oral, Mouse : 5500 mg/kg ( ethan-1,2-diol)

LD<sub>50</sub>, Dermal, Brown Rat: 9530 mg/kg ( ethan-1,2-diol)

LC<sub>50</sub>, Inhalation, Brown Rat: 10876 mg/m<sup>3</sup> ( ethan-1,2-diol)

#### 11.1.2 Mixtures:

The mixture itself is not tested, but it is classified according to the conventional method ( Directive 1999/45/EC) and to the calculation method (Regulation (EC) No 1272/2008).

Acute toxicity:

Ingestion of the mixture may cause abdominal pain, headache, drowsiness, dizziness, state of drunkenness, nausea, vomiting, impaired coordination and articulation. However, the mixture is not classified for acute toxicity.

Inhalation of spray or vapours may cause headache, drowsiness, dizziness, nausea.

Skin corrosion/irritation:

Short-term contact with the skin does not cause skin irritation, prolonged or repeated contact may cause irritation, redness of the skin. The mixture is not classified as corrosive or irritant to the skin .

Serious eye damage/irritation: not detected. The mixture does not cause serious eye damage/irritation.

Respiratory or skin sensitisation: not detected. The mixture does not contain any substances with those effects.

Germ cell mutagenicity: not detected. The mixture does not contain any substances with those effects.

Carcinogenicity: not detected. The mixture does not contain any substances with those effects.

Reproductive toxicity: not detected. The mixture does not contain any substances with those effects.

STOT-single exposure: The mixture contains a substance with those effects , category 3 (Butanone). However the mixture is not classified as toxic to STOT – single exposure.

STOT-repeated exposure: The mixture contains a substance with those effects , category 2 (ethan-1,2-diol). Affected organ: kidney. Route of exposure: Oral. However the mixture is not classified as toxic to STOT – repeated exposure.

Aspiration hazard: not detected. The mixture does not contain any substances with those effects.

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## SECTION 12. Ecological Information

### 12.1. Toxicity:

Acute toxicity:

Toxicity for fish: LD<sub>50</sub>, 96 h, Cyprinus carpio: 1520 mg/l (ethanol)

Toxicity for invertebrates: EC<sub>50</sub>, 48 h, Daphnia magna: 9248 mg/l ( ethanol)

Toxicity for algae: EC<sub>50</sub>, 72 h: 5000 mg/l ( ethanol)

Toxicity for fish: LD<sub>50</sub>, 96 h, Salmo gairdneri: 18500 mg/l (ethan-1,2-diol)

Toxicity for fish: LD<sub>50</sub>, 96 h, Oncorhynchus mykiss: 41000 mg/l (ethan-1,2-diol)

Toxicity for fish: LD<sub>50</sub>, 96 h, Lepomis macrochirus: 18500 mg/l (ethan-1,2-diol)

Toxicity for invertebrates: EC<sub>50</sub>, 48 h, Daphnia magna: 46300 mg/l ( ethan-1,2-diol)

Toxicity for algae: EC<sub>50</sub>, 72 h: > 100 mg/l ( ethan-1,2-diol)

Toxicity for microorganisms: EC<sub>50</sub>, 30 minutes, Phytobacterium phosphoreum: 620 mg/l ( Ethan-1,2-diol)

### 12.2. Persistence and degradability: Substances contained in the mixture are in terms of biodegradability in accordance with EEC Regulation No 648/2004.

CHSK: 1,82 mg O<sub>2</sub>, BSK<sub>5</sub>: 2,08 mg O<sub>2</sub> ( for ethanol)

#### **Ethan-1,2-diol**

Biodegradability: 70% ( 5 days). Method: OECD 301A. The substance is easily biodegradable.

#### **Sodium laureth sulfate**

Biodegradability: 60% ( 28 days). The substance is easily biodegradable.

### 12.3. Bioaccumulative potential:

Partition coefficient: n-octanol/water - log Pow: 1,93 (ethan-1,2-diol)

Partition coefficient: n-octanol/water - log Pow: 0,3 (Sodium laureth sulfate)

### 12.4. Mobility in soil: the mixture is well miscible with water

### 12.5. Results of PBT and vPvB assessment:

This mixture does not contain any substances assessed as PBT or vPvB.

### 12.6. Other adverse effects: Unknown.

## SECTION 13. Disposal consideration

### 13.1. Waste treatment methods:

Do not dispose of with municipal waste. Do not pour into drains.

Recommended disposal : burning

Waste code 20 01 13 Solvents. Waste category: N.

Recommended packaging disposal:

Dispose of empty and clean containers with municipal waste.

Waste code: 15 01 02 plastic packaging. Waste category: O.

Not empty containers are hazardous waste, dispose of it to special and hazardous waste collection point.

Waste code: 15 01 10 Packaging containing residues of or contaminated by dangerous substances.

Waste category: N.

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## SECTION 14. Transport Information

- 14.1. UN number:  
Kemler number: 30  
UN number: 1170
- 14.2. UN proper shipping name: ETHANOL( ETHYL ALCOHOL) or ETHANOL, SOLUTION (ETHYL ALCOHOL SOLUTION)
- 14.3. Transport hazard class(es): 3
- 14.4. Packing group: III
- 14.5. Environmental hazards:  
Marine pollutant: No
- 14.6. Special precautions for user:  
S2 Additional requirements for the transport of flammable liquids and gases  
Transport category: 3  
Limited quantity: 5 L  
Classification Code: F1  
Tunnel category: D/E
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

## SECTION 15. Regulatory information

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006

COMMISSION REGULATION (EU) No 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals  
94/3/EC: Commission Decision establishing a list of wastes pursuant to Article 1a of Council Directive 75/442/EEC on waste

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Detergents

COMMISSION REGULATION (EC) No 907/2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII

Zákon č. 61/2014 Sb., kterým se mění zákon č. 350/2011 Sb., o chemických látkách a chemických směsích a o změně některých zákonů ( chemický zákon)

Zákon č. 20/1966 Sb., o péči o zdraví lidu

Nařízení vlády č. 9/2013 Sb., kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů

Zákon č. 185/2001 Sb., o odpadech a o změně některých dalších zákonů, v platném znění

Zákon č. 111/1994 Sb., o silniční dopravě a vyhláška č. 64/1987 Sb., o evropské dohodě o mezinárodní silniční přepravě nebezpečných věcí (ADR) ve znění pozdějších a souvisejících předpisů

### 15.2. Chemical safety assessment: Not carried out

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## SECTION 16. Other information

- 16.1. The information contained in this Material Safety Data Sheet relates only to the product and not replace technical or quality specifications. All information and instructions provided in this Material Safety Data Sheet is based on the current state of knowledge and may not be accurate. This Material Safety Data Sheet is not an instruction manual - it is listed on the packaging label of each product. The manufacturer does not take other responsibility than for recommended use.
- 16.2. User is responsible for compliance with all relevant legislation to protect the health and for handling with the product according to existing laws and regulations.
- 16.3. List of R and H phrases referred to sections 2 and 3:
- |         |  |
|---------|--|
| R       | 10 - Flammable   |
| Phrases | 11 - Highly flammable  |
| :       |  |
|         | 22 - Harmful if swallowed.   |
|         | 36 - Irritating to eyes.   |
|         | 38 - Irritating to skin  |
|         | 41 - Risk of serious damage to eyes                                      |
|         | 66 - Repeated exposure may cause skin dryness or cracking.               |
|         | 67 - Vapours may cause drowsiness and dizziness                          |
| H       | 225 – Highly flammable liquid and vapour.                                |
| phrases | 226 - Flammable liquid and vapour.                                       |
|         | 302 - Harmful if swallowed.  |
|         | 315 - Causes skin irritation.  |
|         | 318 - Causes serious eye damage  |
|         | 319 - Causes serious eye irritation.                                     |
|         | 336 - May cause drowsiness or dizziness.                                 |
|         | 373 - May cause damage to organs through prolonged or repeated exposure. |
- 16.4. Contact point providing technical information – refer to subsection 1.3.
- 16.5. Changes in the Material Safety Data Sheet: ---

Note: The original Material Safety Data Sheet is in Czech. This Material Safety Data Sheet is only the translation and adheres to the standards and regulatory requirements of the Czech Republic and may not meet the regulatory requirements in other countries. Any disputes will be resolved on the original text.