

MATERIAL SAFETY DATA SHEET

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

Date of compilation : 10. 12. 2013

Revision date: 10. 01. 2015

Revision: 1

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Product name: **ROX Anti-Fog**

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

1.1. Product identifier: **ROX - Anti-Fog**

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

Relevant identified uses: mixture against misted car windows - trigger

Uses advised against: Manufacturer does not indicate

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

Registered office : Františka Diviše 767/68, 104 00 Praha 10 - Uhřetěves

Company registration number (IČ) 47549947

Telephone number/Fax: +420 267710620-1

E-mail: info@filson.cz

E-mail of the competent person responsible for Material Safety Data Sheet: 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: The mixture is not dangerous within the meaning of the Directive 1999/45/EC.

R Phrases codes: ---

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

Hazard class: serious eye irritation

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

Hazard pictograms:



Hazard statements codes: 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 pictograms:



Signal word: Warning

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Product name: **ROX Anti-Fog**

Names of hazardous ingredients: ---

H phrases (Hazard statements):

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.

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

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: mixture of active substances

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 %
Propan-2-ol CAS 67-63-0, EC 200-661-7 Index No: 603-117-00-0 Registration No: 01-2119457558-25	Highly flammable; F; R11 Irritant; Xi; R36 R67	< 15
Ammonia CAS 1336-21-6, EC 215-647-6 Index No: 007-001-01-2 Registration No: 01-2119982985-14	Corrosive; C;R34 Dangerous for the environment; N;R50	< 1

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 %
Propan-2-ol CAS 67-63-0, EC 200-661-7 Index No: 603-117-00-0 Registration No: 01-2119457558-25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	< 15
Ammonia CAS 1336-21-6, EC 215-647-6 Index No: 007-001-01-2 Registration No: 01-2119982985-14	Skin Corr. 1A, H314 STOT SE 3, H335 Aquatic Acute 1, H400	< 1

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

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

Chemical name	Content (%)
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anionic surfactants	< 5
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perfume

LIMONENE, CITRAL

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, drink 0,2 l of water. Immediately seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed: : Eye contact: causes lacrimation, burning, redness
Inhalation: may cause headache, nausea, vomiting.
Ingestion: may cause abdominal pain, nausea, vomiting.
Skin contact: may cause 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 spray, foam or dry powder extinguishers.

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, nitrogen oxides, etc.

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:

Provide adequate ventilation. Avoid contact with the product – protect eyes, skin and respiratory organs.

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

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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:

Avoid contact with skin and eyes. Do not breathe vapours. Keep away from sources of ignition - No smoking.

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 from +5°C to +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. Protect from freezing. Possible reactions with strong oxidizing agents, strong acids, aldehydes, etc.

Minimum durability date is 4 years from manufacture date.

7.3. Specific end use(s): See subsection 1.2 of the MSDS

SECTION 8. Exposure Controls/Personal Protection

8.1. Control parameters: **n-propanol**: permissible exposure limit (PEL): 500 mg.m⁻³
maximum permissible concentration (NPK-P): 1.000 mg.m⁻³
Ammonia permissible exposure limit (PEL): 14 mg.m⁻³
maximum permissible concentration (NPK-P): 36 mg.m⁻³

DNEL (derived no-effect level)

propan-2-ol -worker:

DNEL Inhalation, long-term, systemic effect : 500 mg/m³

DNEL Dermal, long-term, systemic effect : 888 mg/kg/day

propan-2-ol-consumer:

DNEL Inhalation, long-term, systemic effect : 89 mg/m³

DNEL Dermal, long-term, systemic effect : 319 mg/kg/day

DNEL Oral, long-term, systemic effect : 26 mg/kg/day

PNEC (predicted no effect concentration)

Propan-2-ol

PNEC, fresh water: 140,9 mg/l

PNEC, sea water: 140,9 mg/l

PNEC, occasional leakage: 140,9 mg/l

PNEC, freshwater sediments: 552 mg/kg of sediment

PNEC, marine sediments: 552 mg/kg of sediment

PNEC, land (agricultural): 28 mg/kg of soil

PNEC, microorganisms in WWTP: 2251 mg/l

PNEC, oral, food chain: 160 mg/kg of food

8.2. Exposure controls:

8.2.1 Appropriate engineering controls: is not required when handling in the usual way

8.2.2. Individual protection measures, such as personal protective equipment:

Eye/face protection: is not required when handling in the usual way When working with large amounts of product, wear protective sealing goggles (EN 166).

Skin protection:

Hand protection: is not required when handling in the usual way. For long-term contact use protective

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gloves made of nitrile rubber, butyl rubber, 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: is not required when handling in the usual way

Respiratory protection: is not required when handling in the usual way When working with large amounts of product, use a 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	: colourless
Odour	: perfume used
Odour threshold:	: Not defined
pH	: approx. 9,5 - 12
Melting point/ freezing point:	: Not available
Initial boiling point and boiling range	: Not available
Flash point	: Not available
Evaporation rate	: Not available
Flammability (solid, gas)	: Not applicable
Upper/lower flammability or explosive limits:	: Not available
Upper limit (% vol.)	: 12 (propan-2-ol)
Lower limit (% vol.)	: 2 (propan-2-ol)
Vapour pressure at 20 °C	: Not available
Vapour density at 20 °C	: Not available
Relative density at 20°C	: 980 - 990 kg/m ³
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

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 reaction with strong oxidizing agents, strong acids, aldehydes, etc.
- 10.4. Conditions to avoid: do not heat
- 10.5. Incompatible materials: strong oxidizing agents, strong acids, aldehydes, etc.
- 10.6. Hazardous decomposition products: When used for the intended use, it does not decompose.

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SECTION 11. Toxicological information

11.1. Information on toxicological effects:

11.1.1 Substances:

Acute toxicity:

LD₅₀, Oral, Brown Rat: 5045 mg/kg (propan-2-ol)

LD₅₀, Dermal, Brown Rat or Rabbit: 12800 mg/kg (propan-2-ol)

LD₅₀, Oral, Brown Rat: 350 mg/kg (Ammonia)

LDLo, Oral, Human: 43 mg/kg (Ammonia)

LCLo, Inhalation, Human: 5000 ppm (Ammonia)

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, nausea, vomiting. However, the mixture is not classified for acute toxicity.

Inhalation of spray or vapours may cause headache, nausea.

Skin corrosion/irritation:

Contact with the skin causes skin irritation only for sensitive individuals. The mixture is not classified as corrosive/irritant to skin.

Serious eye damage/irritation: The mixture contains substances causing serious eye damage or eye irritation. The mixture causes serious eye irritation, category 2.

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

Skin sensitisation: The mixture contains substances with those effects (perfume). However, the mixture does not cause 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.

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

STOT-single exposure: The mixture contains substances with those effects (propan-2-ol, Ammonia).

However the mixture is not classified as toxic to STOT – single exposure.

STOT-repeated exposure: not detected. The mixture does not contain any substances with those effects.

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

SECTION 12. Ecological Information

12.1. Toxicity:

Acute toxicity:

Toxicity for fish: LD₅₀, 48 h, *Leuciscus idus melanotus*: >100 mg/l (propan-2-ol)

Toxicity for invertebrates: EC₅₀, 48 h, *Daphnia magna*: >100 mg/l (propan-2-ol)

Toxicity for algae: EC₅₀, 72 h, *Scenedesmus subspicatus*: >100 mg/l (propan-2-ol)

Toxicity for fish: LC₅₀, 48 h, *Lepomis macrochirus*: 0,024 - 0,093 mg/l/ (Ammonia)

Toxicity for invertebrates: EC₅₀, 48 h, *Daphnia sp.*: 0,66 mg/l/48h. (Ammonia)

12.2. Persistence and degradability: the product is easily biodegradable

Propan-2-ol

Biodegradability: 70% (10 days). The substance is easily biodegradable.

12.3. Bioaccumulative potential:

Bioconcentration factor (BCF): Not available

Partition coefficient: n-octanol/water (log Pow): Not available

12.4. Mobility in soil: The mixture is soluble in 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.

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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 29 Detergents containing dangerous substances. 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.

SECTION 14. Transport Information

The product is not subject to regulation for transportation of dangerous goods.

14.1. UN number: Manufacturer does not indicate

14.2. UN proper shipping name: Manufacturer does not indicate

14.3. Transport hazard class(es): Manufacturer does not indicate

14.4. Packing group: Manufacturer does not indicate

14.5. Environmental hazards:

Marine pollutant: No

14.6. Special precautions for user: Not applicable

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 of the European Parliament and of the Council (EC) No 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

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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 mixture according to existing laws and regulations.
- 16.3. List of R and H phrases referred to sections 2 and 3:
- R Phrases: 10 - Flammable.
11 - Highly flammable.
34 - Causes burns.
36 - Irritating to eyes.
50 - Very toxic to aquatic organisms
67 - Vapours may cause drowsiness and dizziness
- H phrases 225 - Highly flammable liquid and vapour.
226 - Flammable liquid and vapour.
314 - Causes severe skin burns and eye damage.
319 - Causes serious eye irritation.
335 - May cause respiratory irritation.
336 - May cause drowsiness or dizziness.
400 - Very toxic to aquatic life.
- 16.4. Contact point providing technical information – refer to subsection 1.3.
- 16.5. Changes in the Material Safety Data Sheet:
- Revision No. 1 (10.01.2015):
- CLP classification of the mixture added (subsection 2.1)
 - CLP labelling added (subsection 2.2)
 - control parameters added (subsection 8.1)
 - data changed and added (subsection 9.1)
 - data added (subsection 11.1)
 - data added (section 12)
 - data changed and added (subsection 13.1)
 - regulations changed (subsection 15.1)
 - MSDS was revised according to Commission Regulation (EU) No 453/2010, Annex II

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.