

VALMA WINDSCREEN WASHER -60°C

| | | | |
|------------------|----------------|---------|-----|
| Date of creation | 29. June 2016 | | |
| Date of revision | 05. April 2018 | Version | 2.0 |

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

- 1.1. Product identifier** VALMA WINDSCREEN WASHER -60°C
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Intended use of the mixture anti-freeze windscreen liquid (screen-wash)
Not recommended use of the mixture The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name FILSON s.r.o.
Address Slévačská 902, Praha 9, 19800
Czech Republic
Identification number (ID) 47549947
Phone +420 2677106201
E-mail msds@filson.cz
Web address www.carlson-oil.cz
- Competent person responsible for the safety data sheet**
Name FILSON s.r.o.
E-mail msds@filson.cz
- 1.4. Emergency telephone number**
National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.

Flam. Liq. 2, H225
Eye Irrit. 2, H319

Full text of all classifications and H-phrases is given in the section 16.

The most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

The most serious adverse effects on human health and the environment

Causes serious eye irritation.

- 2.2. Label elements**
Hazard pictogram

**Signal word**

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.

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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 information

<0,2 % anionic surfactants, perfumes, colour agent.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers | Name of the substance | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note. |
|--|--|---------------------|---|-------|
| Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43-0031 | ethanol | <80 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C > 50 % | |
| Index: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3 Registration number: 01-2119456816-28-0004 | ethanediol | <5 | Acute Tox. 4, H302 STOT RE 2, H373 | 1 |
| Index: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 Registration number: 01-2119457290-43-xxxx | butanone | <2 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 | 1 |
| CAS: 68891-38-3 EC: 500-234-8 Registration number: 01-2119488639-16 | alcohols, (C12-14), ethoxylated, monoethers with sulfuric acid, sodium salts | <0,2 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Irrit. 2, H319: 5 % ≤ C < 10 % Eye Dam. 1, H318: C ≥ 10 % | |

Notes

1 Substance for which exposure limits of Community for working environment exist.

Full text of all classifications and H-phrases is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

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Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water/shower.

Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

Ingestion

DO NOT INDUCE VOMITING - even the induced vomiting can cause complications as in case of detergents and other foaming substances.

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

Not expected.

Skin contact

Not expected.

Eye contact

Causes serious eye irritation.

Ingestion

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide sufficient ventilation. Highly flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Prevent contact with skin and eyes. No smoking. Use only non-sparking tools. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Keep container tightly closed. Keep cool.

Storage temperature max.20 °C

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

| Name of the substance (component) | Type | Time of exposure | Value | Note | Source |
|-----------------------------------|------|------------------|-----------------------|------|-------------|
| ethanediol (CAS: 107-21-1) | OEL | 8 hours | 52 mg/m ³ | | EU limits |
| | OEL | 8 hours | 20 ppm | | |
| | OEL | Short-term | 104 mg/m ³ | | |
| | OEL | Short-term | 40 ppm | | |
| butanone (CAS: 78-93-3) | OEL | 8 hours | 600 mg/m ³ | | směrnice EU |
| | OEL | 8 hours | 200 ppm | | |
| | OEL | Short-term | 900 mg/m ³ | | |
| | OEL | Short-term | 300 ppm | | |

United Kingdom of Great Britain and Northern Ireland

| Name of the substance (component) | Type | Time of exposure | Value | Note | Source |
|-----------------------------------|------|------------------|------------------------|---------------------|--------|
| ethanol (CAS: 64-17-5) | WEL | 8 hours | 1920 mg/m ³ | | GBR |
| | WEL | 8 hours | 1000 ppm | | |
| ethanediol (CAS: 107-21-1) | WEL | 8 hours | 10 mg/m ³ | , Particulates only | GBR |
| | WEL | 8 hours | 20 ppm | , Vapour | |
| | WEL | 8 hours | 52 mg/m ³ | , Vapour | |
| | WEL | 15 minutes | 104 mg/m ³ | , Vapour | |
| | WEL | 15 minutes | 40 ppm | , Vapour | |

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DNEL

alcohols, (C12-14), ethoxylated, monoethers with sulfuric acid, sodium salts

| Workers / consumers | Route of exposure | Value | Effect | Determining the value of |
|---------------------|-------------------|-----------------------|--------------------------|--------------------------|
| Workers | Dermal | 2750 mg/kg bw/day | Systemic chronic effects | |
| Workers | Inhalation | 175 mg/m ³ | Systemic chronic effects | |
| Consumers | Oral | 15 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 52 mg/m ³ | Systemic chronic effects | |
| Consumers | Dermal | 1650 mg/kg bw/day | Systemic chronic effects | |

ethanediol

| Workers / consumers | Route of exposure | Value | Effect | Determining the value of |
|---------------------|-------------------|----------------------|--------------------------|--------------------------|
| Workers | Inhalation | 35 mg/m ³ | Local chronic effects | |
| Workers | Dermal | 106 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 7 mg/m ³ | Local chronic effects | |
| Consumers | Dermal | 53 mg/kg bw/day | Systemic chronic effects | |

ethanol

| Workers / consumers | Route of exposure | Value | Effect | Determining the value of |
|---------------------|-------------------|------------------------|--------------------------|--------------------------|
| Workers | Inhalation | 1900 mg/m ³ | Local acute effects | |
| Workers | Dermal | 343 mg/kg | Systemic chronic effects | |
| Workers | Inhalation | 950 mg/m ³ | Systemic chronic effects | |
| Consumers | Inhalation | 950 mg/m ³ | Local acute effects | |
| Consumers | Dermal | 206 mg/kg bw | Systemic chronic effects | |
| Consumers | Inhalation | 114 mg/m ³ | Systemic chronic effects | |
| Consumers | Oral | 87 mg/kg bw | Systemic chronic effects | |

PNEC

alcohols, (C12-14), ethoxylated, monoethers with sulfuric acid, sodium salts

| Route of exposure | Value | Determining the value of |
|---|-------------|--------------------------|
| Freshwater environment | 0.24 mg/l | |
| Seawater | 0.024 mg/l | |
| Soil (agricultural) | 0.946 mg/kg | |
| Microorganisms in wastewater treatment plants | 10000 mg/l | |

ethanediol

| Route of exposure | Value | Determining the value of |
|---|-------------------------------------|--------------------------|
| Freshwater environment | 10 mg/l | |
| Seawater | 1 mg/l | |
| Water (occasional leak) | 10 mg/l | |
| Freshwater sediment | 37 mg/kg | |
| Soil (agricultural) | 1.53 mg/kg of dry substance of soil | |
| Microorganisms in wastewater treatment plants | 199.5 mg/l | |

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ethanol

| Route of exposure | Value | Determining the value of |
|---|-------------------------------------|--------------------------|
| Freshwater environment | 0.96 mg/l | |
| Seawater | 0.79 mg/l | |
| Water (occasional leak) | 2.75 mg/l | |
| Freshwater sediment | 3.6 mg/l | |
| Sea sediments | 2.9 mg/l | |
| Soil (agricultural) | 0.63 mg/kg of dry substance of soil | |
| Microorganisms in wastewater treatment plants | 580 mg/l | |
| Food chain | 720 mg/kg | |

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | |
| Physical state | solid at 20°C |
| color | blue |
| Odour | according to fragrance |
| Odour threshold | data not available |
| pH | 6-8 (undiluted) |
| Melting point/freezing point | -60 °C |
| Initial boiling point and boiling range | data not available |
| Flash point | <23 °C |
| Evaporation rate | data not available |
| Flammability (solid, gas) | data not available |
| Upper/lower flammability or explosive limits | |
| flammability limits | data not available |
| explosive limits | data not available |
| Vapour pressure | data not available |
| Vapour density | data not available |
| Relative density | data not available |
| Solubility(ies) | |
| solubility in water | data not available |
| solubility in fats | data not available |
| Partition coefficient: n-octanol/water | data not available |
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| Viscosity | data not available |
| Explosive properties | data not available |
| Oxidising properties | The product has no oxidizing properties. |



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9.2. Other information

| | |
|----------------------|--------------------------------------|
| Density | 0.87-0.88 g/cm ³ at 20 °C |
| ignition temperature | data not available |

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

alcohols, (C12-14), ethoxylated, monoethers with sulfuric acid, sodium salts

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|-----------|-------------|------------------|---------|-----|
| Oral | LD50 | >2000 mg/kg | | Rat | |
| Dermal | LD50 | >2000 mg/kg | | Rat | |

butanone

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|-----------|---------------|------------------|----------------------------------|-----|
| Oral | | 3460 mg/kg bw | | Rat (<i>Rattus norvegicus</i>) | |
| Dermal | LD50 | >10 ml/kg bw | | Rabbit | |

ethanediol

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|-----------|-------------------------|------------------|----------------------------------|-----|
| Oral | LD50 | 4700 mg/kg | | Rat (<i>Rattus norvegicus</i>) | |
| Oral | LD50 | 5500 mg/kg | | Mouse | |
| Dermal | LD50 | 9530 mg/kg | | Rat (<i>Rattus norvegicus</i>) | |
| Oral | LDL0 | 100 ml | | Human | |
| Inhalation | LC50 | 10876 mg/m ³ | | Rat (<i>Rattus norvegicus</i>) | |

ethanol

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|-----------|----------------|------------------|---------|-----|
| Oral | LD50 | 10470 mg/kg bw | | | |
| Dermal | LD50 | 15800 mg/kg bw | | | |



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ethanol

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|-----------|-------------------------|------------------|---------|-----|
| Inhalation | LC50 | 30000 mg/m ³ | | | |

Skin corrosion/irritation

Based on available data the classification criteria are not met.

alcohols, (C12-14), ethoxylated, monoethers with sulfuric acid, sodium salts

| Route of exposure | Result | Time of exposure | Species |
|-------------------|------------|------------------|---------|
| | Irritating | | Human |

Serious eye damage/irritation

Causes serious eye irritation.

alcohols, (C12-14), ethoxylated, monoethers with sulfuric acid, sodium salts

| Route of exposure | Result | Time of exposure | Species |
|-------------------|-------------------|------------------|---------|
| | Highly irritating | | Human |

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Data for the mixture are not available.

alcohols, (C12-14), ethoxylated, monoethers with sulfuric acid, sodium salts

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|----------|------------------|-----------------------------|-------------|
| CL50 | 7.1 mg/l | 96 hour | Fishes | |
| CE50 | 7.2 mg/l | 48 hour | Crustaceans (Daphnia magna) | |

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alcohols, (C12-14), ethoxylated, monoethers with sulfuric acid, sodium salts

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|-----------|------------------|-----------------------------|-------------|
| NOEC | 0.27 mg/l | 48 hour | Crustaceans (Daphnia magna) | |
| CE50 | 27 mg/l | 72 hour | Algae | |

butanone

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|------------|------------------|---|-------------|
| LC50 | 2993 mg/kg | 96 hour | Fishes (Pimephales promelas) | |
| EC50 | 308 mg/l | 48 hour | Invertebrates (Daphnia magna) | |
| EC50 | 1972 mg/l | 72 hour | Algae (Pseudokirchneriella subcapitata) | |

ethanediol

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|------------|------------------|-------------------------------|-------------|
| | 18500 mg/l | 96 hour | Fishes (Salmo gairdneri) | |
| LD50 | 41000 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| LD50 | 18500 mg/l | 96 hour | Fishes (Lepomis macrochirus) | |
| EC50 | 46300 mg/l | 48 hour | Invertebrates (Daphnia magna) | |
| EC50 | >100 mg/l | 72 hour | Algae | |

ethanol

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|-------------------|------------------|------------------------------------|-------------|
| LC50 | 11200 mg/l of air | 24 hour | Fishes (Oncorhynchus mykiss) | |
| EC50 | 5012 mg/l | 48 hour | Invertebrates (Ceriodaphnia dubia) | |
| EC50 | 857 mg/l | 48 hour | Invertebrates (Artemia salina) | |
| EC50 | 275 mg/l | 72 hour | Algae (Chlorella vulgaris) | |

12.2. Persistence and degradability

Biodegradability

alcohols, (C12-14), ethoxylated, monoethers with sulfuric acid, sodium salts

| Parameter | Method | Value | Time of exposure | Environment | Result |
|-----------|--------|-------|------------------|-------------|--------|
| | | 60 % | 28 day | | |

ethanediol

| Parameter | Method | Value | Time of exposure | Environment | Result |
|-----------|-----------|-------|------------------|-------------|----------------------|
| | OECD 301A | >70 % | 5 day | | Easily biodegradable |

The mixture is biodegradable.

12.3. Bioaccumulative potential

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alcohols, (C12-14), ethoxylated, monoethers with sulfuric acid, sodium salts

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] |
|-----------|-------|------------------|---------|-------------|------------------------------|
| Log Pow | -1.38 | | | | |

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Not available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Code of type of waste

20 01 13 solvents

Code of type of waste packaging

15 01 02 plastic packaging

15 01 10 packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information**14.1. UN number**

UN 1170

14.2. UN proper shipping name

ETHANOL

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

not available

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

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Additional information

| | | |
|----------------------------------|-------------|---------------|
| The hazard identification number | 33 | (Kemler Code) |
| UN number | 1170 | |
| Classification code | F1 | |
| Safety signs | 3 | |

**Air transport - ICAO/IATA**

| | |
|----------------------------------|-----|
| Packaging instructions passenger | 353 |
| Cargo packaging instructions | 364 |

Marine transport - IMDG

| | |
|----------------------|----------|
| EmS (emergency plan) | F-E, S-D |
| MFAG | 305 |

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 of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 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, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. The Act No. 258/2000 Coll., on Protection of Public Health as amended. Decree No. 361/2007 Coll., determining conditions of occupational health protection as amended. Decree No. 415/2012 Coll., on the permissible level of pollution and its determination and implementation of certain other provisions of the Air Protection Act as amended. The Act No. 185/2001 Coll., on Waste and the Amendment of Some Other Acts as amended. The Act No. 201/2012 Coll., on the Protection of Atmosphere – Clean Air Act as amended. Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |

Guidelines for safe handling used in the safety data sheet

| | |
|------|--|
| 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, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P501 | Dispose of contents/container to the collection point for hazardous or special waste. |

VALMA WINDSCREEN WASHER -60°C

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

A list of additional standard phrases used in the safety data sheet

EUH 066 Repeated exposure may cause skin dryness or cracking.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

| | |
|-----------------|---|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL | Derived no-effect level |
| EC | Identification code for each substance listed in EINECS |
| EC50 | Concentration of a substance when it is affected 50% of the population |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency plan |
| EU | European Union |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| IC50 | Concentration causing 50% blockade |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| LC50 | Lethal concentration of a substance in which it can be expected death of 50% of the population |
| LD50 | Lethal dose of a substance in which it can be expected death of 50% of the population |
| LOAEC | Lowest observed adverse effect concentration |
| LOAEL | Lowest observed adverse effect level |
| log Kow | Octanol-water partition coefficient |
| MARPOL | International Convention for the Prevention of Pollution From Ships |
| NOAEC | No observed adverse effect concentration |
| NOAEL | No observed adverse effect level |
| NOEC | No observed effect concentration |
| NOEL | No observed effect level |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted no-effect concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |
| UN | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bioaccumulative |
| Acute Tox. | Acute toxicity |
| Aquatic Chronic | Hazardous to the aquatic environment |
| Eye Dam. | Serious eye damage |
| Eye Irrit. | Eye irritation |
| Flam. Liq. | Flammable liquid |
| Skin Irrit. | Skin irritation |
| STOT RE | Specific target organ toxicity - repeated exposure |



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

VALMA WINDSCREEN WASHER -60°C

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STOT SE Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.