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Reviewed on:	SCREEN WASH WINTER	Version: 1.0

1. Section 1. Identification of the substance/mixture and of the company/undertaking:1.1. Product identifier : **SCREEN WASH WINTER - 1 35010 (-40°C), R34692(-60°C), R 34690/95(-80°C)**

1.2. Relevant identified uses of the substance or mixture and uses advised against: Winter concentrate for windscreen washers

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

Identification of manufacturer/Supplier:

RETECH, s.r.o.

Vackova 1541/4

150 00 Praha-5 Stodůlky

Telephone/Fax: +420 327 596 128, +420 327 596 428

Information: info@retech.cz

1.4. Emergency telephone number:

RETECH Suchdol 212, Suchdol u Kutné Hory

Tel.+420 327 596 128 (7.30-16.00 hour)

Toxicology information number, Na bojišti 1, 128 08 PRAHA 2

Tel. +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Section 2. Hazard identification:

The product is labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

The classification is in line with current EC lists, It is expanded, however, by information from technical literature and by information furnished by supplier companies.

2.1. Classification of the substance or mixture:

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

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

F- Highly flammable R11 Highly flammable.

2.2. Label elements:

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

GHS02



DANGER

H225 Highly flammable liquid and vapour.

Labelling according to Directive 1999/45/EC:

F



Highly flammable

R11 Highly flammable.

Special labeling of certain preparations: Not.

2.3. Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable

vPvB: Not applicable

Buildup of explosive mixtures possible without sufficient ventilation.

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3. Section 3. Composition/information on ingredients:

3.2. Mixtures:

Description: Mixture of the substances listed below with harmless additions.

Dangerous components:

CAS: 64-17-5 EINECS: 200-578-6	Ethanol F R11 GHS02 Flam.Lig.2, H225	60/71/85%
CAS: 107-21-1 EINECS: 203-473-3	Ethylenglycol Xn R22 GHS07 Acute Tox. 4, H302	3%

Additional information: For the wording of the listed risk phrases refer to section 16.

Ingredients according to detergents guideline 648/2004/EC: Anion surfactants <5%

4. Section 4. First aid measures:

4.1. Description of first aid measures:

After inhalation: Supply fresh air; consult doctor in case of symptoms.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing: Do not induce vomiting. Wash out mouth with water, drink plenty of water and seek medical advice.

Most important symptoms and effects, both acute and delayed:

The fluid is irritating to skin and mucous membranes and degrades skin.

After swallowing it absorbs rapidly through ventricle mucosa and gets into blood.

Vapours can have narcotic effects. Symptoms are feeling of drunkenness, tiredness and headache.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. Section 5. Fire fighting measures:

5.1. Extinguishing media:

Suitable extinguishing agents: CO₂, powder, alcohol resistant foam or water haze.

For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2. Special hazards arising from the substance or mixture:

Advice for firefighters: Wear protective equipment/clothing and breathing apparatus when fighting fires.

Danger of violent reaction and explosion. Evaporates quickly after escaping into free space. Vapours are heavier than air, they can expand into large distances and form an explosive mixture with air. In the case of fire CO may be possible.

6. Section 6. Accidental release measures:

6.1. Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Wear protective equipment see Section 8.2. Keep unprotected persons away. Keep ignition sources away.

6.2. Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

6.3. Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment

See Section 13 for disposal information.

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7. Section 7. Handling and storage:

- 7.1. Information for safe handling: Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: Evaporates quickly after escaping into free space. Vapours are heavier than air and form an explosive mixture with air. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not smoke.
- 7.2. Conditions for safe handling, including any incompatibilities: Store in cool location and protect from heat and direct sunlight. Keep away from sources ignition.– Do not smoke. Do not store together with alkali metals and materials supporting fire.
- Requirements to be met by storerooms and containers: -
- Information about storage in one common storage facility: -
- 7.3. Specific end use(s): Possible exchange with alcohol if the product is not preserved in original packaging.

8. Section 8. Exposure controls and personal protection:

- 8.1 Control parameters:
- 107-21-2 Ethylenglycol:
WEL Short-term value: 104 mg/cm³, 40 ppm
Long-term value: 52 mg/cm³, 20 ppm
- 64-17-5 Ethanol
WEL Long-term value: 1920 mg/m³, 1000 ppm
- Additional information: The lists that were valid during the compilation were used as basis.
- 8.2 Exposure controls:
- Eye protection: Safety goggles.
- Breathing equipment: Ensure adequate ventilation when using the product. Use breathing protection in the case of insufficient ventilation.
- Protection of hands: Protective gloves
- Protection of skin: Protective working clothes.
- 8.3. General protective and hygienic measures: The usual precautionary measures should be adhered to general rules for handling chemicals. Wash hand after each work period and before eating.

9. Section 9. Physical and chemical properties:

- 9.1. Information on basic physical and chemical properties:
- Appearance:
- form: Liquid
- colour: Blue
- Odour threshold: Alcohol
- Value pH: Not determined
- Melting point/freezing point: Not determined
- Initial boiling point/boiling range: +75°C
- Flash point: +15,5°C
- Evaporation rate: Not determined
- Flammability (solid,gas): Not determined
- Explosive properties: Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- Upper/lower flammability or explosive limits:
- Explosion limits: lower (% Vol): 3.5
upper (% Vol): 15
- Vapour pressure (at 20°C): Not determined

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Vapour density (at 20 °C):	Not determined
Relative density:	0.903/0.886/0.846 g/cm ³
Solubility in/miscibility with	
- water	Fully miscible
- fat	Limited solubility
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Oxidative properties:	Not determined
9.2. Other information:	
Organic solvents:	63%(-40°C), 74%(-60°C), 88% (-80°C)

10. Section 10. Stability and reactivity:	
10.1. Reactivity:	No further relevant information available.
10.2. Chemical stability:	No further relevant information available.
10.3. Possibility of hazardous reactions:	Alkali metals, strong oxidizing agents, acids, ethylenchlorid, anhydrides.
10.4. Conditions to avoid:	Avoid heat, flames and other sources of ignition.
10.5. Incompatible materials:	There are known no incompatible materials.
10.6. Hazardous products of decomposition:	In the case of fire CO may be possible.

11. Section 11. Toxicological information:	
11.1 Information on toxicological effects:	
Acute toxicity:	
64-17-5 Ethanol	
Oral LD50	7060 mg/kg (rat)
Dermal LD50	6300mg/kg (rab)
Inhalative LC50/4h	20000 mg/l (mus)
Irritation: on the skin:	May cause irritation by long term contact.
on the eye:	May cause transient irritation in high concentration.
Corrosivity:	Not corrosive.
Sensitization:	No sensitizing effect known.
Repeated dose toxicity:	No further relevant information available.
Carcinogenicity:	No further relevant information available.
Mutagenicity:	No further relevant information available.
Toxicity for reproduction:	No further relevant information available.
Other information:	After inhalation of high concentration irritation of airways, drowsiness and narcotic effects may be possible. After swallowing: headache, feeling of elevated temperature and eye pressure, tiredness, drowsiness, vomiting, eventually unconsciousness may be possible.

12. Section 12. Ecological information:	
12.1. Toxicity:	
Ecotoxicological effects:	
Aquatic toxicity:	
64-17-5 Ethanol	
EC50	9248 (mg.l ⁻¹) (Daphnia Magma 48h)
LC50	1040 (mg.l ⁻¹) 96hrs, fish (Nepomis macrochirus)
	1520 (mg.l ⁻¹) (Ciprinus carpio)
	1030–14200 (mg.l ⁻¹) (Pimephales promelas)
IC50	72hrs, algae (mg.l ⁻¹) - data not available
	Do not allow product to reach ground water, water course or sewage system.
12.2. Persistence and degradability:	Product is biologically degradable (ethanol).
12.3. Bioaccumulative potential:	Bioaccumulation in organisms is not expected.
12.4. Mobility in soil:	No further relevant information available.

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- 12.5. Results of PBT and vPvB assessment:
PBT: Not applicable
vPvB: Not applicable
- 12.6. Other adverse effects: No further relevant information available.

13. Section 13. Disposal considerations:

- 13.1 Waste treatment methods:
Product: Must not be disposed together with household garbage. Disposal must be made according to official regulations.
Uncleaned packagings: Disposal must be made according to official regulations.

14. Section 14. Transport information:

- 14.1. Land transport:
ADR/RID-GGVS: 3 Flammable liquid
Label: 3
Danger code (Kemler): 30
Packaging group: III
Number UN: 1170
Description of goods: Flammable liquid
- 14.2. Maritime transport:
IMDG-class: 3.2
Page: -
Number UN: 1170
Packaging group: III
EMS-group: 3-06
MFAG: 305
Marine pollutant: No
Proper shipping name: Ethanol, Flammable liquid
- 14.3. Air transport:
ICAO / IATA -class: 3
UN/ID number: 1170
Packaging group: III
Proper shipping name: Ethanol, Flammable liquid, PAO:309, CAO:310

15. Section 15. Regulatory information:

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
Labelling according to law line:
The product has been labeled in accordance with EC Directives / relevant national laws.
Danger of determining components and mark to labelling:

Labelling hazardousness:



F – Highly flammable

Numbers and word reading associated hazard R-sentences :
R 11 Highly flammable.

Numbers and word reading associated security S-sentences:

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- S 2 Keep out of reach of children.
S 7 Keep container tightly closed.
S 16 Keep away from sources of ignition – No smoking.
S 46 If swallowed, seek medical advice immediately and show this container or label.

On the packaging there is not included info in accordance with European Regulation No 1999/45/EC (chapter 2.5.).

Regulation (EC) No 648/2004 Contains: Anion surfactants <5%, ethanol, water, ethylenglycol, pigments, perfume.

Used legislation:

European Regulation (EC) No 1907/2006 – REACH.
Commission Regulation (EU) No 453/2010.
European Regulation No 67/548EEC and 1999/45/EC.
Commission Regulation (EC) No 1272/2006 – CLP.
Commission Regulation (EC) No 790/2009.
Regulation (EC) No 648/2004 (detergents).

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Section 16. Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relative R+H phrases:

- R 11 Highly flammable.
R 22 Harmful if swallowed.
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

WEL- Workplace exposure limits

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

***Compared to the last version the data has been changed.**