

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Koncentrerad spolarvätska

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

Washer fluid for windshields

1.3 Details of the supplier of the safety data sheet

Supplier Agro Oil
Box 30192
104 25 Stockholm, Sweden
Telephone +46 (0)10-556 00 00
E-mail info@agrol.se

1.4 Emergency telephone number

In emergency situations, contact National Poisons Information Service

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

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

2.2 Label elements

Hazard pictograms



Signal word

DANGER

Substances that contribute to the classification

Ethanol, Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Hazard statements

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



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Precautionary statements

- P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/ protective clothing/eye protection/face protection.
P305+P351 IF IN EYES: Rinse cautiously with water for several minutes.
+P338 Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378 In case of fire: use dry powder, foam or carbon dioxide to extinguish.
P501 Dispose of contents/container to approved waste disposal facility in accordance with local regulations

2.3 Other hazards

Repeated exposure may cause skin dryness.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Classification according to Regulation (EC) No 1272/2008 [CLP]

Name	EC no.	CAS no.	REACH reg no.	% (w/w)	Hazard statements
Ethanol	200-578-6	64-17-5	01-2119457610-43	75 - <90	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	500-234-8	68891-38-3	01-2119488639-16	<1.5	Skin Irrit. 2, H315 Eye Dam. 1, H318

Other information

For a full text of hazard statements: see Section 16

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

- After inhalation: Fresh air and rest. If difficulties in breathing, get medical advice.
After eye contact: Rinse the eyes immediately with water for at least 5 minutes. Keep the eyelids wide apart, remove contact lenses if present. If symptoms persist consult a doctor.
After skin contact: Take off contaminated clothing. Wash skin with soap and water
After ingestion: Rinse mouth and drink water. Do **not** induce vomiting. Contact a doctor if experiencing symptoms.

4.2 Most important symptoms and effects, both acute and delayed

- Inhalation: Vapours may affect the central nervous system and cause headache, lack of coordination, nausea and vomiting.
Eye: Causes serious eye irritation.
Skin: Repeated and prolonged contact may damage skin.
Ingestion: Small amounts are not expected to produce any acute or delayed symptoms. Large amounts may cause dizziness, impaired consciousness, nausea and vomiting.



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4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Can be extinguished using water spray or fog, dry powder, foam or carbon dioxide.

Unsuitable extinguishing media: Do not use direct water jet.

5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. The vapour may form an explosive mixture with air and be ignited. In case of fire, toxic and corrosive gases may develop.

5.3 Advice for firefighters

Precautions according to the standard procedure for chemical fires. Use water **only** to cool down containers that are exposed to fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin.

6.2 Environmental precautions

Do not allow discharge to enter sewers, watercourses or the ground.

6.3 Methods and material for containment and cleaning up

Contain/absorb spillages with suitable absorbent material such as sand or active clay. Disposal of waste must be in accordance with national regulations.

6.4 Reference to other sections

See Section 8 for Exposure controls / personal protection and Section 13 for disposal considerations.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, sparks and open flames. Avoid prolonged or repeated contact with skin. Avoid inhalation of vapours, mist or fumes.

Do not reuse soiled clothing unless laundered.

7.2 Conditions for safe storage, including any incompatibilities

Flammable liquid class 1. Store in a well-ventilated cool place. Containers must be kept tightly closed and sealed. Keep out of reach of children.

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7.3 Specifik end use

See Section 1.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits according to National regulations

Name	CAS no.	TWA (8 h)	TWA (8 h)	STEL (15 min)	STEL (15 min)	Comment
		ppm	mg/m ³	ppm	mg/m ³	
Ethanol	64-17-5	1000	1920	-	-	

This information refers to Great Britain.¹ For other countries, refer to national legislation.

¹For Great Britain see: Health and Safety Executive EH40/2005 Workplace exposure limits (third edition, published 2018). Published by the Health and Safety Executive.

8.2 Exposure controls

Appropriate technical measures

Ensure adequate ventilation. Methods are designed to prevent direct contact.

Personal protection

Respiratory protection: Use respiratory protection when insufficient ventilation. Respiratory mask with filter type A.

Eye/face protection: Wear eye protection (safety glasses with side shields or full face shield) when risk of splashing.

Skin protection: Wear protective gloves (nitrile or PVC) and protective clothing.

Environmental exposure control

Prevent discharges into drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Blue liquid
Odour:	Alcohol
Odour treshold:	Not available
pH:	7.6 - 8
Melting point / freezing point:	No information
Initial boiling point and boiling range:	81 °C
Flash point:	20 °C
Evaporation rate:	Not available
Flammability (solid, gas):	Not applicable
Upper / lower flammability or explosive limits:	Not available
Vapour pressure:	5124 Pa (20 °C) 24 kPa (50 °C)
Vapour density:	Not available
Density:	851 – 855 kg/m ³ (20 °C)

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Relative density:	0.833 – 0.873
Solubility in water:	Not available
Solubility in organic solvents	Not available
Partition coefficient, n-octanol/water:	Not available
Decomposition temperature:	Not available
Auto-ignition temperature:	423 °C
Viscosity, kinematic:	Not relevant
Explosive properties:	Not available
Oxidising properties:	Not oxidising

9.2 Other information

None.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

The product is not reactive under normal conditions.

10.2 Chemical stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

None specific.

10.5 Incompatible materials

Avoid strong acids and bases.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11. TOXIKOLOGICAL INFORMATION

11.1 Information on toxikological effects

Acute toxicity

Not considered to be acutely toxic.

Ethanol	LD ₅₀ Rat (oral): 7060 mg/kg LD ₅₀ Rabbit (dermal): >20 000 mg/kg LC ₅₀ Rat (inhalation): 127.7 mg/L/4h
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Alcohols, C12-14, ethoxylated, sulfates, sodium salts	LD ₅₀ Rat (oral): 4100 mg/kg
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Corrosive / irritating on the skin

Repeated and prolonged contact may damage skin.

Serious eye damage / irritation

Causes serious eye irritation.

Respiratory / skin sensitization

Not considered sensitizing.

Germ cell mutagenicity

It is considered not to cause mutations in germ cells.

Carcinogenicity

Not considered to be carcinogenic.

Toxic to reproduction

Not considered to be toxic to reproduction.

Specific organ toxicity-single exposure

Vapours may affect the central nervous system and cause headache, lack of coordination, nausea and vomiting.

Specific organ toxicity-repeated exposure

No information available.

Aspiration Hazard

Considered not to be an aspiration hazard.

SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as hazardous to the environment.

12.1 Toxicity

Ethanol	LC ₅₀ Fish 96h: 13 500 mg/L (species: Pimephales promelas) EC ₅₀ Daphnia 48h: 5400 mg/L (species: Daphnia magna) EC ₅₀ Algae 72h: >10.9 mg/L (species: Skeletonema costatum)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	LC ₅₀ Fish 96h: 7,1 mg/L (species: Danio rerio) EC ₅₀ Daphnia 48h: 7.4 mg/L (species: Daphnia magna) EC ₅₀ Algae 72h: 27 mg/L (species: Scenedesmus subspicatus)



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12.2 Persistence and degradability

The components are rapidly biodegradable.

Ethanol	BOD5/COD 0.4 - 0.8 Degradability: 85%, 28 d. (OECD301D).
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Degradability: 100 %, 28 d.

12.3 Bioaccumulative potential

Ethanol	BCF = 0.66 Log Pow = -0.32
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Ethanol has low potential for bioaccumulation.

12.4 Mobility in soil

The product is soluble in water and is considered to be mobile in soil.

12.5 Results of PBT och vPvB assessment

Based on available information, this mixture contains no substance that meets the PBT or vPvB criteria according to Annex XIII to Regulation (EC) No. 1907/2006 (REACH).

12.6 Other adverse effects

None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Product residues, spills etc. are classified as hazardous waste. Disposal, transportation, storage and handling of the waste must be in accordance with national regulations. Product waste must not be allowed to contaminate soil or water, or released into the environment.

HP classification: HP 3 (Flammable), HP 4 (Irritating).

Suggested waste code (EWC): *14 06 03 Solvents

Packaging

EWC-code: 15 01 02, Plastic packaging

EWC-code: 15 01 04, Metallic packaging

Packaging containing product residues that are not drip dry must be handled as hazardous waste and disposed of properly sealed.

EWC-code: 15 01 10, Packaging containing residues of or contaminated by hazardous substances.



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SECTION 14. TRANSPORT INFORMATION

14.1 UN-number

1170

14.2 UN proper shipping name

Ethanol solution (ethyl alcohol solution)

14.3 Transport hazard class

3 (ADR, IMDG, IATA)

14.4 Packing group

II (ADR, IMDG, IATA)

14.5 Environmental hazards

No

14.6 Special precautions for user

Warning, Flammable liquids

Kemler no.: 33

EMS no.: F-E, S-D

Classification code (ADR): F1

14.7 Bulktransport enligt Bilaga II till Marpol 73/78 och IBC-koden

Not applicable.

Remarks: Exemption for transport of limited quantities. For details, please refer to applicable legislation or contact a safety adviser.

SECTION 15. REGULATORY INFORMATION

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

This safety data sheet is prepared in accordance with the EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) No 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH) and Commission Regulation (EU) No 2015/830 of 28 May 2015 amending the European Parliament and Council Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH).

Regulations

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substance and mixtures (CLP).

Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste.

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15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

Classification procedure

Test data is prioritized when classifying the product. When no test data are available the classification criteria in Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP) have been used.

Hazard statements in Section 3

H315 Causes skin irritation.
H318 Causes serious eye damage.

Abbreviations

BCF Bio Concentration Factor
BOD5/COD Biological Oxygen Demand 5 days/Chemical Oxygen demand
BOD (MITI) Biological Oxygen Demand
DNEL Derived No Effect Level
EC50 Effective Concentration (concentration that gives response in 50% of test subjects)
ECHA European Chemical Agency
EmS Emergency Schedule Information
IARC International Agency for Research on Cancer
IC50 Inhibitory Concentration (concentration that shows inhibition in 50% of the test subjects)
LC50 Lethal Concentration (concentration causing the death of 50% of a group of test animals)
LD50 Lethal Dose (dose causing the death of 50% of a group of test animals)
Log Pow Partition coefficient of octanol - water
MITI Ministry of International Trade and Industry, Japan
NOEC No Observed Effect Concentration
NOAEC No Observed Adverse Effect Concentration
NOAEL No Observed Adverse Effect Level
OECD Organisation for Economic Co-operation and Development
PBT Persistent Bio-accumulative and Toxic substance
PNEC Predicted No Effect Concentration
STEL Short Term Exposure Limit
SVHC Substance of Very High Concern
TWA Time-weighted average
vPvB very Persistent and very Bioaccumulative

Advice on education

The user of this product should have training that is relevant to the properties of the product and relevant use.

References

Information from the supplier.
Classification & Labelling Inventory Database, ECHA.
Registered substances, ECHA.

Version description

The information has been modified under the following sections in the safety data sheet: 2, 3, 4, 8, 9, 11, 12, 13, 16.

The safety data sheet is dated 18.11.2019 and replaces version dated 11.06.2019.