Spolarvätska koncentrerad

21.11.2023

SAFETY DATA SHEET

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

1.1 Product identifier

Spolarvätska koncentrerad

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

Washer fluid, concentrated.

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

Sweden

Swedish Poisons Information Centre	010-456 67 00 (Open 24/7)
Emergency	112 (Ask for the Posion Centre)

Finland

Poison Information Centre	09-471 977 (Open 24/7)
Emergency	112 (Ask for the Poison Centre)

Norway

Norwegian Poison Information Centre	22 59 13 00 (Open 24/7)
Emergency	113 (Ask for the Poison Centre)

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

Hazard statements

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

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.
P305+P351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to approved waste disposal facility in accordance with local regulations

2.3 Other hazards

May cause skin dryness.

SECTION 3. COMPOSITION/INFORMATION OM 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 C ≥ 50%: Eye Irrit. 2, H319[1]
Ethylene glycol	203-473-3	107-21-1	01-2119456816-28	<7	Acute Tox. 4, H302 STOT RE 2, H373
Metyl ethyl ketone	201-159-0	78-93-3	01-2119457290-43	<2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH 066
Isopropanol	200-661-7	67-63-0	01-2119457558-25	<5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

[1]Specific Concentration Limit (SCL) stated by the supplier.

The product also contains denaturant.

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 cautiously with water for several minutes. 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: May cause mild irritation to the respiratory tract.
Eye: Causes serious eye irritation.
Skin: May cause dehydration of the skin,
Ingestion: Small amounts are not expected to produce any acute or delayed symptoms. Large amounts may cause dizziness, nausea and impaired consciousness.

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 dry powder, alcohol resistant 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

Eliminate all sources of ignition near the spilled product.
Avoid contact with eyes and skin.
Observe the risk of ignition and explosion.

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 soil, vermiculite, diatomaceous earth or active clay. Collect in a suitable container.
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

Avoid prolonged or repeated contact with skin. Avoid inhalation of vapours, mist or fumes. Do not reuse soiled clothing unless laundered.
Keep away from heat, sparks and open flames. Take action to prevent static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Containers must be stored tightly closed, dry and cool. Keep out of reach of children.

7.3 Specifik end use

See Section 1.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits according to National regulations

AFS 2018:1, Sweden

Substance	Cas nr	NGV	NGV	KTV	KTV	Note	Year
		ppm	mg/m3	ppm	mg/m3		
Ethanol	64-17-5	500	1000	1000	1900	V	1993
Ethylene glycol	107-21-1	10	25	40	104	H	2015
Methyl ethyl ketone	78-93-3	50	150	300	900	-	2015
Isopropanol	67-63-0	150	350	250	600	V	1989

Note:
V: Indicative short-term limit value.
H: The substance can be easily absorbed through the skin

654/2020, Finland

Substance	Cas nr	HTP 8 hours		HTP 15 minutes		Note	Year
		ppm	mg/m3	ppm	mg/m3		
Ethanol	64-17-5	1000	1900	1300	2500	-	1996
Ethylene glycol	107-21-1	20	50	40	100	skin	2002
Methyl ethyl ketone	78-93-3	20	60	100	300	skin	2020
Isopropanol	67-63-0	200	500	250	620	-	1996

Skin: Substance where the significance of skin exposure can be very large given the total exposure.

Regulations concerning Action and Limit values, Norway

Name	Cas nr	ppm	mg/m3	Note	Last amended
Ethanol	64-17-5	500	950	-	-
Ethyleneglycol	107-21-1	20	52	HE	2012
Butanone	78-93-3	75	220	E	
2-propanol	67-63-0	100	245	-	-

H: The substance can be easily absorbed through the skin.
E: The EU has adopted a recommended limit value for the substance.

Other information

DNEL:

Ethanol:	**Worker**				**General public**			
	Long term exposure				Long term exposure			
	Systemic effects		Local effects		Systemic effects		Local effects	
Inhalation	950	mg/m³	-	mg/m³	114	mg/m³	-	mg/m³
Dermal	343	mg/kg	-	mg/kg	206	mg/kg	-	mg/kg
Oral	-	mg/kg	-	mg/kg	87	mg/kg	-	mg/kg
	Short term exposure				Short term exposure			
	Systemic effects		Local effects		Systemic effects		Local effects	
Inhalation	-	mg/m³	1 900	mg/m³	-	mg/m³	950	mg/m³
Dermal	-	mg/kg	-	mg/kg	-	mg/kg	-	mg/kg

Isopropanol:	**Worker**				**General public**			
	Long term exposure				Long term exposure			
	Systemic effects		Local effects		Systemic effects		Local effects	
Inhalation	500	mg/m³	-	mg/m³	89	mg/m³	-	mg/m³
Dermal	888	mg/kg	-	mg/kg	319	mg/kg	-	mg/kg
Oral	-	mg/kg	-	mg/kg	26	mg/kg	-	mg/kg

Methyl ethyl ketone:	**Worker**				**General public**			
	Long term exposure				Long term exposure			
	Systemic effects		Local effects		Systemic effects		Local effects	
Inhalation	600	mg/m³	-	mg/m³	106	mg/m³	-	mg/m³
Dermal	1161	mg/kg	-	mg/kg	412	mg/kg	-	mg/kg

PNEC:

Ethanol:	Freshwater:	0,96	mg/l
	Marine water:	0,79	mg/l
	Intermittent release:	2,75	mg/l
	Sediment (freshwater):	3,6	mg/kg
	Sediment (marine water):	2,9	mg/kg
	Soil:	0,63	mg/kg
	Sewage treatment plant:	580	mg/l

Isopropanol:	Freshwater:	140,9	mg/l
	Marine water:	140,9	mg/l
	Intermittent release:	140,9	mg/l
	Sediment (freshwater):	552	mg/kg
	Sediment (marine water):	552	mg/kg
	Soil:	28	mg/kg
	Sewage treatment plant:	2251	mg/l

Methyl ethyl ketone:	Freshwater:	55,8	mg/l
	Marine water:	55,8	mg/l
	Intermittent release:	55,8	mg/l
	Sediment	284,7	mg/kg
	Soil:	22,5	mg/kg
	Sewage treatment plant:	709	mg/l

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: A (brown)

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

Skin protection: Wear protective gloves and protective clothing.
Protective gloves made of the following materials:

Chemical protection> 8 h: Viton / Butyl rubber, Barrier (PE / PA / PE), Silver Shield / 4H (PE / EVAL / PE)

Chemical protection> 4 h: Neoprene rubber
Thin disposable gloves made of, for example, natural rubber, polyvinyl alcohol (PVAL), polyvinyl chloride (PVC) can be used for very short exposures.

Environmental exposure control

Prevent discharges into drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Blue
Odour:	Alcohol
Melting point / freezing point:	No information
Boiling point or initial boiling point and boiling range:	78 °C
Flammability:	Highly flammable liquid and vapour.
Upper / lower flammability or explosive limits:	No information
Flash point:	< 17°C

Auto-ignition temperature:	No information
Decomposition temperature:	Not relevant
pH	ca 7
Kinematic viscosity:	No information
Solubility:	Soluble in water and organic solvents
Partition coefficient n-octanol/water:	No information
Vapour pressure	No information
Density and/or relative density:	0,81-0,82 g/cm^3 (20 °C)
Relative vapour density:	No information
Particle characteristics:	Not relevant (liquid)

9.2 Other information

9.2.1. Information with regard to physical hazard classes

Flammable liquids:	Highly flammable liquid and vapour. The vapors may form an explosive mixture with air and ignite.

9.2.2 Other safety characteristics

Not relevant

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

The product may react with strong oxidizing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11. TOXIKOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not considered to be acutely toxic.

Ethanol	LD_{50} Oral Rat: 10 470 mg/kg LD_{50} Dermal: 15 800 mg/kg LC_{50} Inhalation: 30 000 mg/m^3
Isopropanol	LD_{50} Oral Rat: 5 280 mg/kg LD_{50} Dermal Rabit: 12 800 mg/kg LC_{50} Inhalation Rat: 72,6 mg/L/4h
Methyl ethyl ketone	LD_{50} Oral Rat: > 2 193 mg/kg LD_{50} Dermal Rabit: > 5 000 mg/kg LC_{50} Inhalation Rat: 34 mg/L/4h

Corrosive / irritating on the skin

May cause dehydration of the skin,

Serious eye damage / irritation

Causes serious eye irritation..

Respiratory / skin sensitization

Not considered to be sensitizing.

Germ cell mutagenicity

Not considered to be 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

Inhalation of high levels can cause headache, dizziness, fatigue and nausea.
Inhalation of very high concentrations may cause vomiting and unconsciousness.

Specific organ toxicity-repeated exposure

Liver cirrhosis and liver fibrosis have been detected at levels above 6,200 mg / kg (NOEL) when ingested.

Aspiration Hazard

Not considered to be an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Based on available information, this mixture contains no substance which is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100 or (EU) 2018/605 in concentrations ≥ 0.1% (w/w).

SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as hazardous to the environment.

12.1 Toxicity

Ethanol	LC_{50} Fish 96 h: 13 500 mg/L (Pimephales promelas) EC_{50} Daphnia 48 h: 5 400mg/L (Daphnia magna) IC_{50} Algae 72 h: 5 600 mg/L (Scenedesmus subspicatus)
Isopropanol	LC_{50} Fish 96 h: 9 640 mg/L (Pimephales promelas) EC_{50} Daphnia 48 h: 13 299 mg/L (Daphnia magna) IC_{50} Algae 72 h: < 1000 mg/L (Scenedesmus subspicatus)
Methyl ethyl ketone	LC_{50} Fish 96 h: 2 993 mg/L (Pimephales promelas) EC_{50} Daphnia 48 h: 308 mg/L (Daphnia magna) IC_{50} Algae 72 h: 1 972 mg/L (Pseudokirchneriella subcapitata)

12.2 Persistence and degradability

Ethanol	BOD5/COD: 0.4-0.8 Degradability: 97%, 28 d, CO_2 evolution, readily biodegradable. Degraded by naturally occurring microorganisms.

12.3 Bioaccumulative potential

Ethanol	BCF = 0.66 Log Pow = -0,32 Does not bioaccumulate in the aquatic environment.

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 Endocrine disrupting properties

Based on available information, this mixture contains no substance which is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100 or (EU) 2018/605 in concentrations ≥ 0.1% (w/w).

12.7 Other adverse efffects

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.

Prevent discharge into drains.

Classified as hazardous waste, with hazard class HP 3, Flammable.

Suggested waste code (EWC): 16 01 14* antifreeze fluids containing hazardous substances.

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.

SECTION 14. TRANSPORT INFORMATION

	ADR/RID	ADN	IMDG	IATA /ICAO
14.1 UN-number or ID number	UN1170	UN1170	UN1170	UN1170
14.2 UN proper shipping name	Ethanol solution	Ethanol solution	Ethanol solution	Ethanol solution
14.3 Transport hazard class	3	3	3	3
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No	No	No	No

14.6 Special precautions for user

Tunnel restriction code: (D/E)
EmS code: F-E, S-D

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

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 2020/878 of 18 June 2020 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.

Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents
The surfactants meet the requirements for ultimate biodegradability according to Annex III.
Labelling:

Substance	Concentration
Non-ionic surfactants	< 5 %
Perfumes	< 5 %

International Carriage of Dangerous Goods by Road (ADR)
International Carriage of Dangerous Goods by Rail (RID)
International Carriage of Dangerous Goods by Inland Waterways (ADN)
IATA Dangerous goods regulation / ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air (IATA /ICAO)
International Maritime Dangerous Goods Code (IMDG)

Sweden
AFS 2011:19, amended by AFS 2018:2 (Chemical risks at work)
AFS 2018:1 (Occupational exposure limits)
KIFS 2017:7 (Chemical products and Biotechnicological organisms Regulation)

Finland
654/2020 (Occupational exposure limits)
715/2001 (Chemical risks at work)

Norway
Regulations concerning the design and layout of workplaces and work premises (the Workplace Regulations)

Regulations concerning action and limit values for physical and chemical agents in the working environment and classified biological agents (Regulations concerning Action and Limit values)

15.2 Chemical safety assessment

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

SECTION 16. OTHER INFORMATION

Please note! This safety data sheet is an English translation applicable for Sweden, Norway and Finland. A safety data sheet in local language is also available. Please refer to the Agro Oil webshop for safety data sheets in local languages. https://webshop.agrol.se/

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

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations

ADN	International Carriage of Dangerous Goods by Inland Waterways
ADR	International Carriage of Dangerous Goods by Road
BCF	Bio Concentration Factor
BOD5/COD	Biological Oxygen Demand 5 days/Chemical Oxygen demand
BOD (MITI)	Biological Oxygen Demand
DNEL	Derived No Effect Level
EC_{50}	Effective Concentration (concentration that gives response in 50% of test subjects)
ECHA	European Chemical Agency
EmS	Emergency Schedule Information
HTP	Exposure value, concentrations of impurities in workplace air known to be harmful.
IARC	International Agency for Research on Cancer
IATA/ICAO	IATA Dangerous goods regulation / ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air
IC_{50}	Inhibitory Concentration (concentration that shows inhibition in 50% of the test subjects)
IMDG	International Maritime Dangerous Goods Code
KTV	Short term exposure values, normally 15 minutes
LC_{50}	Lethal Concentration (concentration causing the death of 50% of a group of test animals)
LD_{50}	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
NGV	Long term exposure value, normally 8 hours.
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
RID	International Carriage of Dangerous Goods by Rail

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: SDS in Swedish, 2023-06-22.
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, 6, 8, 9, 11, 13, 16.

The safety data sheet is dated 21.11.2023 and replaces the version dated 01.12.2021.