

# SAFETY DATA SHEET

In accordance with 1907/2006 annex II 2015/830 and 1272/2008  
(All references to EU regulations and directives are abbreviated into only the numeric term)  
Revision date 2019-05-16  
Replaces issued SDS 2017-08-15  
Version number 8.0



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

### 1.1. Product identifier

Trade name Spolarväska Koncentrerad

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

Identified uses Windscreen washing fluid

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

Company Arom-dekor Kemi AB  
Europavägen 1  
51291 SEXDREGA  
Sweden  
Telephone 0320 60500  
E-mail info@aromdekor.se

### 1.4. Emergency telephone number

Acute cases: Call 112, request poison information.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Flammable liquids (Category 2), H225

Irritates eyes (Category 2), H319

### 2.2. Label elements

Hazard pictogram



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

P233

Keep container tightly closed

P403+P235

Store in a well-ventilated place. Keep cool

P501

Dispose of contents and container to authorised waste disposal facility

### 2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
<b>ETHANOL</b>		
CAS No: 64-17-5 EC No: 200-578-6 Index No: 603-002-00-5 REACH: 01-2119457610-43	Flam Liq 2, Eye Irrit 2; H225, H319	80 - 100 %
<b>ISOBUTYL METHYL KETONE</b>		
CAS No: 108-10-1 EC No: 203-550-1 Index No: 606-004-00-4 REACH: 01-2119473980-30	Flam Liq 2, Acute Tox 4 <i>vapour</i> , Eye Irrit 2, STOT SE 3 <i>resp</i> ; H225, H332, EUH066, H319, H335	<2 %
<b>ETHYL METHYL KETONE</b>		
CAS No: 78-93-3 EC No: 201-159-0 Index No: 606-002-00-3 REACH: 01-2119457290-43	Flam Liq 2, Eye Irrit 2, STOT SE 3 <i>drow</i> ; H225, EUH066, H319, H336	<1 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Generally

Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

In case of concern, or if symptoms persist, call a doctor/physician.

Never leave a injured person alone. Their condition may rapidly worsen, sometimes several hours after the poisoning.

#### Upon breathing in

Allow the injured person to rest in a warm place with fresh air, if symptoms persist seek medical attention.

#### Upon eye contact

Remove contact lenses immediately if possible.

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor/ophthalmologist.

#### Upon skin contact

Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.

Remove contaminated clothes.

#### Upon ingestion

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

### 4.2. Most important symptoms and effects, both acute and delayed

#### Upon eye contact

Irritates the eyes.

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

Symptomatic treatment.

Upon contact with a doctor, make sure to have the label or this safety data sheet with you.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

#### Recommended extinguishing agents

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

#### Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

### 5.2. Special hazards arising from the substance or mixture

Inflammable.

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.

Emits flammable vapours which may form an explosive mixture with air.

### 5.3. Advice for fire-fighters

Any extinguishing should be executed from a good distance, due to the development of intense heat.

In case of fire use a respirator mask.

Wear full protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Note, risk of ignition and explosion.

Switch off equipment which has an exposed flame, glows, or has a heat source of some other kind.

Note, risk for formation of sparks due to static electricity. Do not remove clothing in a room where spillage has occurred.

Switch off power at the main switch. Do not use the power switch in the room where the spillage has occurred.

Avoid inhalation and exposure to skin and eyes.

Gas mask with an A type filter (brown) may be required when decontaminating spillage.

Use recommended safety equipment, see section 8.

Keep unauthorized and unprotected people at a safe distance.

Note that there is a risk of slipping if product is leaking/spilling.

Ensure good ventilation.

Use a chemical protection suit when cleaning up large spills.

### 6.2. Environmental precautions

Avoid emissions into soil, water or air.

Avoid discharge into sewers.

### 6.3. Methods and material for containment and cleaning up

Evacuate the area and ventilate fumes. Note, risk for explosion.

Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority sanitisation works. Present this safety data sheet.

Absorb the liquid with an inert absorbent, vermiculite, for example. Collect the material for disposal at a waste disposal facility.

Clean-up of repeated spillages, or larger spillages of this product, should be executed by professional decontamination workers.

### 6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Store this product separately from food items and keep it out of the reach of children and pets.

Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in Section 6 of this safety data sheet.

Open fires, hot objects, spark formation, or other sources of ignition, are not allowed in the premises where this product is handled. Prevent build up of static electricity by utilising a semi-conducting floor and shoe soles and keep humidity above 50%.

Do not eat, drink or smoke in premises where this product is handled.

Wash your hands after using the product.

Remove contaminated clothing.

Wash contaminated clothing before reuse.

## 7.2. Conditions for safe storage, including any incompatibilities

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.

This product should be stored well out of reach of young children and kept safely apart from products intended for consumption.

Always use sealed and visibly labeled packages.

Store in a well-ventilated space.

Do not store above normal room temperature.

Store tightly, in original packaging.

## 7.3. Specific end uses

See identified uses in Section 1.2.

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### 8.1.1. National limit values

#### ETHANOL

##### United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 1000 ppm / 1920 mg/m<sup>3</sup>

#### ISOBUTYL METHYL KETONE

##### United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 50 ppm / 208 mg/m<sup>3</sup>

Short term exposure limit (STEL) 100 ppm / 416 mg/m<sup>3</sup>

Note Sk,BMGV

#### ETHYL METHYL KETONE

##### United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 200 ppm / 600 mg/m<sup>3</sup>

Short term exposure limit (STEL) 300 ppm / 899 mg/m<sup>3</sup>

Note Sk,BMGV

Explanations of abbreviations are given in Section 16b

### DNEL

#### ETHYL METHYL KETONE

	Type of exposure	Route of exposure	Value
Consumer	Chronic Systemic	Inhalation	106 mg/m <sup>3</sup>
Worker	Chronic Systemic	Dermal	1161 mg/kg
Worker	Chronic Systemic	Inhalation	600 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Oral	31 mg/kg
Consumer	Chronic Systemic	Dermal	412 mg/kg

## PNEC

### ETHYL METHYL KETONE

Environmental protection target	PNEC value
Fresh water	55.8 mg/l
Freshwater sediments	284.74 mg/kg
Marine water	55.8 mg/l
Marine sediments	284.7 mg/kg
Microorganisms in sewage treatment	709 mg/l
Soil (agricultural)	22.5 mg/kg

#### 8.2. Exposure controls

In terms of minimizing risks, attention must be paid to the physical hazards (see Sections 2 and 10) of this product according to EU directives 89/391 and 98/24 and national occupational legislation.

##### 8.2.1. Appropriate engineering controls

Handle in premises which have modern ventilation standards.

Maintenance and service of personal protective equipment shall be included in the works plan for internal supervision. All inspections and remedial measures shall be documented.

Eye-rinsing facilities shall be available at the workplace.

##### Eye/face protection

Eye protection should be worn if there is any danger of direct exposure or splashing.

##### Skin protection

Wear protective gloves if risk of skin contact.

Follow current local regulations for recommending protective gloves.

Wear suitable protective clothing when necessary.

Do not use clothing made of synthetic material which may give rise to static electricity.

##### Respiratory protection

Use proper protective breathing equipment in case of insufficient ventilation.

A breathing mask of the A filter (brown) type, may be required.

##### 8.2.3. Environmental exposure controls

For limitation of environmental exposure, see Section 12.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

a) Appearance	Form: liquid. Colour: blue.
b) Odour	like alcohol
c) Odour threshold	Not indicated
d) pH	Not indicated
e) Melting point/freezing point	Not indicated
f) Initial boiling point and boiling range	80 °C
g) Flash point	20.0 °C
h) Evaporation rate	Not indicated
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not indicated
k) Vapour pressure	Not indicated
l) Vapour density	Not indicated
m) Relative density	Not indicated
n) Solubility	Not indicated
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not indicated
q) Decomposition temperature	Not indicated
r) Viscosity	Not indicated
s) Explosive properties	Not applicable
t) Oxidising properties	Not applicable

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

### 10.2. Chemical stability

The product is stable at normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

May emit volatile, flammable vapours. Avoid handling close to heat or ignition sources.

### 10.4. Conditions to avoid

Avoid heat, sparks and open flames.

### 10.5. Incompatible materials

Avoid contact with oxidizers.

May damage gaskets, lacquered or painted surfaces, natural rubber, certain synthetic materials and areas treated with fat.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

This product's main risk is its flammability.

#### Acute toxicity

The product is not classified as acutely toxic.

#### ISOBUTYL METHYL KETONE

LD50 rabbit 24h: > 16000 mg/L Dermal

LC50 rat 4h: 8.2 mg/L Inhalation

LD50 rat 24h: 2080 mg/L Orally

#### ETHYL METHYL KETONE

LD50 rabbit 24h: > 8000 mg/kg Dermal

LC50 rat 4h: 34 mg/L Inhalation

LC50 rat 4h: 12000 ppmV Inhalation

LC50 rat 8h: 23.5 mg/l Inhalation

LD50 rat 24h: 5600 mg/kg Orally

#### Skin corrosion/irritation

The mixture is judged as a whole and is classified to be neither corrosive nor irritant to skin. Mild irritation may occur on prolonged or repeated exposure.

#### Serious eye damage/irritation

Eye contact may cause burning pain or irritation.

#### Respiratory or skin sensitisation

The product does not contain any known allergens.

#### Germ cell mutagenicity

No mutagenic effects have been reported for the substance in this mixture.

#### Carcinogenicity

No carcinogenic effects have been reported for the substances in this product.

#### Reproductive toxicity

No toxic effects to reproduction have been reported for the substances in this mixture.

#### STOT-single exposure

At high concentrations there is an anaesthetic or narcotic effect.

The criteria for classification cannot be considered fulfilled based on available data.

#### STOT-repeated exposure

No known hazards for repeated exposure.

#### Aspiration hazard

The product is not classified as being toxic for aspiration.

## SECTION 12: Ecological information

### 12.1. Toxicity

No ecological damage is known or expected in the event of normal use.

Avoid larger spills in soil, water and drains.

### ISOBUTYL METHYL KETONE

LC50 fathead minnow (Pimephales promelas) 96h: 496 - 514 mg/L

EC50 Algae 96h: 400 mg/L

EC50 Freshwater water flea (Daphnia magna) 48 h: 170 mg/L

### ETHYL METHYL KETONE

LC50 fathead minnow (Pimephales promelas) 96h: 2993 mg/L

LC50 Freshwater water flea (Daphnia magna) 48h: 520 mg/L

LC50 Fish 96h: 3 mg/L

IC50 Algae 72h: 110 mg/l

### 12.2. Persistence and degradability

No information about persistence or degradability exists but there is no reason to suppose that the product is persistent.

### 12.3. Bioaccumulative potential

No information exists on bioaccumulation, but there is no cause for concern in respect of this.

### 12.4. Mobility in soil

The product is miscible with water and is therefore variable in soil and water.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6. Other adverse effects

This product degrades rapidly but large emission within a short period of time may be harmful to the local environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste handling of the product

The product is flammable and its waste shall therefore, if it is not treated in order to eliminate this risk, be considered to be dangerous.

Small quantities are not normally recycled. In the case of larger quantities, contact the distributor.

Not completely emptied packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely emptied packaging can be recycled.

Also take local regulations for dealing with waste into account.

See also national waste regulations.

#### Classification according to 2008/98

## SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

### 14.1. UN number

1987

### 14.2. UN proper shipping name

ALCOHOLS, N.O.S.

### 14.3. Transport hazard class(es)

#### Class

3: Flammable liquids

### Classification code (ADR/RID)

F1: Flammable liquids having a flash-point of or below 60 °C

### Labels



### 14.4. Packing group

Packing group II

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

#### Tunnel restrictions

Tunnel category: D/E

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

### 14.8 Other transport information

Transport category: 2; Highest total quantity per transported unit 333 kg or liters

Stowage category B (IMDG)

Emergency Schedule (EmS) for FIRE (IMDG) F-E

Emergency Schedule (EmS) for SPILLAGE (IMDG) S-D

## SECTION 15: Regulatory information

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

Not indicated.

### 15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.



## SECTION 16: Other information

### 16a. Indication of where changes have been made to the previous version of the safety data sheet

#### Revisions of this document

Earlier versions

2017-08-15 Changes in section(s) 3, 4, 5, 6, 7, 8, 11, 12, 13.

### 16b. Legend to abbreviations and acronyms used in the safety data sheet

#### Full texts for Hazard Class and Category Code mentioned in section 3

Flam Liq 2	Flammable liquids (Category 2)
Eye Irrit 2	Irritates eyes (Category 2)
Acute Tox 4 <i>vapour</i>	Acute toxicity (Category 4 vapours)
STOT SE 3 <i>resp</i>	Specific target organ toxicity - single exposure; May cause respiratory irritation (Category 3 resp)
STOT SE 3 <i>drow</i>	Specific target organ toxicity - Single exposure (Category 3, Narcosis effect)

#### Explanations of the abbreviations in Section 8

##### United Kingdom (EH40/2005 (Third edition, published 2018))

Sk	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity
BMGV	Biological monitoring guidance values

#### Explanations of the abbreviations in Section 14

ADR	European Agreement concerning the International Transport of Dangerous Goods by Road
RID	Regulations concerning the International Transport of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods Code
ICAO	International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA	The International Air Transport Association
Tunnel restriction code: D/E;	Transport by bulk or via tank: Passage forbidden through tunnels of category D and E, Other transportation means: Passage forbidden through tunnels of category E
Transport category: 2;	Highest total quantity per transported unit 333 kg or liters

## 16c. Key literature references and sources for data

### Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I , as updated to 2019-05-16.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

### Full texts for Regulations mentioned in this Safety Data Sheet

- 1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a 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
- 2015/830 COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- 1272/2008 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 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
- EH40/2005 EH40/2005 Workplace exposure limits
- 89/391 COUNCIL DIRECTIVE (89/391/EEC) of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work
- 98/24 COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)
- 2008/98 DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives
- 1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a 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

### 16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I , where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI .

## 16e. List of relevant hazard statements and/or precautionary statements

### Full texts for hazard statements mentioned in section 3

- H225 Highly flammable liquid and vapour  
H319 Causes serious eye irritation  
H332 Harmful if inhaled  
EUH066 Repeated exposure may cause skin dryness or cracking  
H335 May cause respiratory irritation  
H336 May cause drowsiness or dizziness

## 16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

### Warning for misuse

This product can cause injuries if not used properly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with its intended use.

### Other relevant information

Not indicated

### Editorial information



This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, [www.kemrisk.se](http://www.kemrisk.se)