

# 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 2020-09-02  
Replaces issued SDS 2018-09-13  
Version number 2.0



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

### 1.1. Product identifier

Trade name Rödsprit

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

Identified uses Cleaner  
Solvents  
Fuel

### 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

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

P280

Wear eye protection

P337+P313

If eye irritation persists: Get medical advice/attention

P501

Dispose of contents and container to authorised waste disposal facility

## 2.3. Other hazards

Not indicated.

# 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	75 - 100 %
<b>ISOBUTYL METHYL KETONE</b>		
CAS No: 108-10-1 EC No: 203-550-1 Index No: 606-004-00-4	Flam Liq 2, Acute Tox 4vapour, Eye Irrit 2, STOT SE 3resp; H225, H332, EUH066, H319, H335	≤5 %

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

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

### Upon breathing in

Fresh air and rest. If symptoms persist seek medical advice.

### 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.

### Upon ingestion

Talk to your doctor if more than insignificant quantities have been swallowed.

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

##### **Upon eye contact**

Irritation.

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

Symptomatic treatment.

## **SECTION 5: Fire-fighting measures**

### **5.1. Extinguishing media**

#### **Recommended extinguishing agents**

Extinguish with materials intended for the surrounding fire.

#### **Unsuitable extinguishing agents**

Among common extinguishing agents there are none that are overtly unsuitable.

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

In case of fire, substances hazardous to health, or substances harmful in other respects, may be dispersed.

### **5.3. Advice for fire-fighters**

In case of fire use proper breathing apparatus.

Wear full protective clothing.

## **SECTION 6: Accidental release measures**

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

Do not inhale the product and avoid exposure to skin and eyes.

### **6.2. Environmental precautions**

Avoid release to soil and waterways.

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

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

### **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**

Do not inhale the fumes and avoid exposure to skin, eyes and clothing.

Open fire, hot items, sparks or other ignition sources must not be present in the environment used for handling this product.

Use recommended safety equipment, see section 8.

### **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.

Store only in the original package.

### **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

Explanations of abbreviations are given in Section 16b

#### DNEL

##### ETHANOL

	Type of exposure	Route of exposure	Value
Worker	Acute	Inhalation	1900 mg/m <sup>3</sup>
	Local		
Consumer	Chronic Systemic	Inhalation	114 mg/m <sup>3</sup>
Worker	Chronic Systemic	Dermal	343 mg/kg
Worker	Chronic Systemic	Inhalation	950 mg/m <sup>3</sup>
Consumer	Acute Local	Inhalation	950 mg/m <sup>3</sup>
Consumer	Acute Local	Dermal	950 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Oral	87 mg/kg
Consumer	Chronic Systemic	Dermal	206 mg/kg

##### ISOBUTYL METHYL KETONE

	Type of exposure	Route of exposure	Value
Worker	Acute	Inhalation	208 mg/m <sup>3</sup>
	Local		
Worker	Chronic Systemic	Dermal	11.8 mg/kg bw
Worker	Acute Systemic	Inhalation	208 mg/m <sup>3</sup>
Worker	Chronic Local	Inhalation	83 mg/m <sup>3</sup>
Worker	Chronic Local	Dermal	11.8 mg/kg bw
Worker	Chronic Systemic	Inhalation	83 mg/m <sup>3</sup>

## **PNEC**

### **ETHANOL**

Environmental protection target	PNEC value
Fresh water	0.96 mg/l
Freshwater sediments	3.6 mg/kg
Marine water	0.79 mg/l
Marine sediments	2.9 mg/kg
Microorganisms in sewage treatment	580 mg/l
Soil (agricultural)	0.63 mg/kg

### **ISOBUTYL METHYL KETONE**

Environmental protection target	PNEC value
Fresh water	0.6 mg/L

## **8.2. Exposure controls**

To prevent occupational risks the health hazards for this product or any of the ingredients should be taken into account (see sections 2, 3 and 11), according to EU Directive 89/391 and 98/24 and national jurisdiction for occupational risks.

### **8.2.1. Appropriate engineering controls**

Handle in premises which have modern ventilation standards.

### **Eye/face protection**

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

### **Skin protection**

It is generally not necessary to use protective gloves.

Wear protective gloves (EN 374) upon repeated or prolonged exposure.

### **Respiratory protection**

Protective breathing equipment should only be required in extreme work-situations. Consult the manufacturer if this is the case.

### **8.2.3. Environmental exposure controls**

For limiting environmental exposure, see section 12.

## **SECTION 9: Physical and chemical properties**

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

a) Appearance	Colour: red.
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	>35 °C
g) Flash point	<23 °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	Solubility in water: Soluble
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

No hazardous reactions known during normal use.

### 10.4. Conditions to avoid

Stable under recommended conditions for storage and handling, see chapter 7.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Information on possible health hazards are based on experience and / or toxicological properties of several components in the product.

#### Acute toxicity

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

#### ETHANOL

LD50 rabbit 24h: > 20000 mg/kg Dermally

LC50 rat 4h: 124.7 mg/l Inhalation

LD50 rat 10h: 38 mg/liter Inhalation

LD50 rat 10h: 2000 ppm Inhalation

LD50 rat 24h: 7060 mg/kg Orally

#### ISOBUTYL METHYL KETONE

LD50 rabbit 24h: > 16000 mg/kg Dermally

LC50 rat 4h: 316.6 mg/L Inhalation

LD50 rat 24h: 2080 mg/kg Orally

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

Irritating to eyes.

#### Respiratory or skin sensitisation

The product is not classified as sensitising.

#### Germ cell mutagenicity

The product is not classified as mutagen.

#### Carcinogenicity

The product is not classified as carcinogenic.

#### Reproductive toxicity

The product is not classified as a reproductive toxicant.

#### STOT-single exposure

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

#### STOT-repeated exposure

The product is not classified for specific organ toxicity after repeated exposure.

#### Aspiration hazard

The product is not classified as being toxic for aspiration.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not to be labelled as a environmental hazard. However, it is not inconceivable that large emissions, or repeated small emissions, can have a harmful effect on the environment.

### ETHANOL

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h: 1 - 16 g/l  
LC50 fathead minnow (*Pimephales promelas*) 96h: > 100 mg/l  
LC50 Freshwater water flea (*Daphnia magna*) 48h: 12340 mg/l  
EC50 Freshwater water flea (*Daphnia magna*) 48h: 1 - 14221 mg/l

### ISOBUTYL METHYL KETONE

EC50 Freshwater water flea (*Daphnia magna*) 48 h: 101 mg/l  
LC50 Fish 96h: 101 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

Information about mobility in nature is not available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

Data lacking.

## 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.

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.

Observe local regulations.

See directive 2008/98/EC on waste. Observe national or regional provisions on waste management.

## 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

1993

### 14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (ETHANOL, ISOBUTYL METHYL KETONE)

### 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

#### Subsidiary risk (IMDG)

No subsidiary risk according to IMDG

## 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-E

## 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

2018-09-13 Changes in section(s) 2, 3, 4, 8, 11, 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 4vapour	Acute toxicity (Category 4 vapours)
STOT SE 3resp	Specific target organ toxicity - single exposure; May cause respiratory irritation (Category 3 resp)

### 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 2020-09-02.

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
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

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

Not indicated.

**Other relevant information**

Not indicated

**Editorial information**

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