

# 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)

Issued 2019-04-29

Version number 1.0

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

### 1.1. Product identifier

Trade name	Friendly Whiteboard - Red
Article number	Red 17140, 17340
	Kit 17150, 17350

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

Identified uses	Marking colour
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### 1.3. Details of the supplier of the safety data sheet

Company	Ballograf AB
	Klangfärgsgatan 11A 2tr
	426 52 Västra Frölunda
	Sweden
Telephone	031-769 14 40
E-mail	info@ballograf.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

Specific target organ toxicity - Single exposure (Category 3, Narcosis effect), H336

## 2.2. Label elements

Hazard pictogram



Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

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

P337+P313 If eye irritation persists: Get medical advice/attention

P501 Dispose of contents and container to authorised waste disposal facility

## Supplemental hazard information

Contains: PROPAN-2-OL

## 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	50 - 90 %
<b>PROPAN-2-OL</b>		
CAS No: 67-63-0 EC No: 200-661-7 Index No: 603-117-00-0 REACH: 01-2119457558-25	Flam Liq 2, Eye Irrit 2, STOT SE <i>3drow</i> ; H225, H319, H336	10 - 25 %

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 occur, 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**

Remove contaminated clothing.  
Wash the skin with soap and water.  
If symptoms occur, contact a physician.

**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 breathing in**

May cause drowsiness or disorientation.

**Upon eye contact**

Irritates the eyes.

**Upon ingestion**

May cause irritation of mucous membranes, nausea and vomiting.

**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**

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

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.

**5.3. Advice for fire-fighters**

Protective measures should be taken regarding other material at the site of the fire.

In case of fire use a respirator mask.

Wear full protective clothing.

Cool closed containers that were exposed to fire with water.

## SECTION 6: Accidental release measures

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

Keep unauthorized and unprotected people at a safe distance.

Do not inhale vapours and avoid contact with skin, eyes and clothes when cleaning up the spillage.

Use recommended safety equipment, see section 8.

Note the risk of ignition.

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

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

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

Evacuate the accident area and call an ambulance, if relevant.

Ensure good ventilation.

Use masks with fresh air when oxygen content is low or unknown.

**6.2. Environmental precautions**

Avoid release to drains, soil or watercourses.

Prevent from entering sewers, basements and pits, or any place where gas accumulation could be dangerous.

Notify rescue services for larger spillage.

**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.

Do NOT use tools emitting sparks when cleaning.

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.

Ensure good ventilation after sanitation.

#### **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**

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

The product may be electrostatically charged. Always ground the containers while transferring the contents from one container to another. Do not use tools that may cause sparks.

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

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

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.

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.

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

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

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 tightly, in original packaging.

Store as flammable liquid.

Store in dry and cool area.

Store in a well-ventilated space.

### **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>

##### **PROPAN-2-OL**

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

Time-weighted-average exposure limit (TWA) 400 ppm / 999 mg/m<sup>3</sup>

Short term exposure limit (STEL) 500 ppm / 1250 mg/m<sup>3</sup>

**DNEL  
ETHANOL**

	Type of exposure	Route of exposure	Value
Worker	Acute Local	Inhalation	1900 mg/m <sup>3</sup>
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

**PROPAN-2-OL**

	Type of exposure	Route of exposure	Value
Consumer	Chronic Systemic	Inhalation	89 mg/m <sup>3</sup>
Worker	Chronic Systemic	Dermal	888 mg/kg
Worker	Chronic Systemic	Inhalation	500 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Oral	26 mg/kg
Consumer	Chronic Systemic	Dermal	319 mg/kg

**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

### **PROPAN-2-OL**

Environmental protection target	PNEC value
Fresh water	140.9 mg/l
Freshwater sediments	552 mg/kg
Marine water	140.9 mg/l
Marine sediments	552 mg/kg
Microorganisms in sewage treatment	2251 mg/l
Soil (agricultural)	28 mg/kg
Intermittent	140.9 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 with good ventilation.  
Use local exhaust ventilation.

### **Eye/face protection**

Use safety glasses with a strong seal if there is a risk of splashing.

### **Skin protection**

Use protective gloves fulfilling the standard EN374 if there is a risk of direct contact.  
Use suitable protective clothing.

### **Respiratory protection**

Use proper protective breathing equipment in case of insufficient ventilation.

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

Work with the product should take place in such a way that the product does not get into drains, waterways, soil and air.

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

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

a) Appearance	Form: liquid. Colour: red.
b) Odour	like alcohol
c) Odour threshold	Not indicated
d) pH	Not indicated
e) Melting point/freezing point	-117.3 °C
f) Initial boiling point and boiling range	82 °C
g) Flash point	13 °C
h) Evaporation rate	Not indicated
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Lower explosion limit 1.8% Upper explosion limit 15%
k) Vapour pressure	59 hPa
l) Vapour density	1.59
m) Relative density	0.83 g/cm <sup>3</sup>
n) Solubility	Solubility in water: Partially miscible
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not indicated
q) Decomposition temperature	Not indicated
r) Viscosity	12 mPa·s
s) Explosive properties	May form an explosive mixture with air
t) Oxidising properties	Not applicable

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Vapour can create explosive mixtures with air.

Reacts with oxidizing agents.

### 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.

### 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 product is not classified as acutely toxic.

#### 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

#### PROPAN-2-OL

LD50 rabbit 24h: 15800 mg/kg Dermally

LD50 rat 24h: > 12800 mg/kg Dermally

LC50 rat 4h: 72.6 mg/L Inhalation

LC50 rat 4h: 64000 ppmV Inhalation  
LC50 rat 8h: 16000 ppmV Inhalation  
LD50 rat 24h: 5045 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**

Irritating to eyes.

#### **Respiratory or skin sensitisation**

Not 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**

Fumes may cause drowsiness or grogginess.

#### **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**

The product, according to current criteria and based on available information, is considered not to be harmful to the environment.

Prevent release on land, in water and drains.

#### **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

#### **PROPAN-2-OL**

LC50 fathead minnow (*Pimephales promelas*) 96h: 9640 mg/L  
LC50 Freshwater water flea (*Daphnia magna*) 48h: 2285 mg/L  
EC50 Freshwater water flea (*Daphnia magna*) 48 h: 13299 mg/l  
LC50 Fish 96h: 1000 mg/l  
EC50 Freshwater water flea (*Daphnia magna*) 24h: 1 - 100 mg/l  
EC50 Algae 24h: 1 - 10 mg/l

### **12.2. Persistence and degradability**

The product degrades easily in the natural environment.

### **12.3. Bioaccumulative potential**

This product or its ingredients do probably not accumulate in nature.

### **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**

No known effects or hazards.



## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste handling of the product

Discarded products must be disposed of as hazardous waste in accordance with regulations.

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.

Avoid discharge into sewers.

Observe local regulations.

See also national waste regulations.

## 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

3175

### 14.2. UN proper shipping name

SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ETHANOL, PROPAN-2-OL)

### 14.3. Transport hazard class(es)

#### Class

4.1: Flammable solids, self-reactive substances and solid desensitized explosives

#### Classification code (ADR/RID)

F1: Flammable solids, Organic

#### 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: 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-A

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

## 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

This is the first version

### 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)
STOT SE 3drow	Specific target organ toxicity - Single exposure (Category 3, Narcosis effect)

#### 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: E; Passage through category E tunnels is strictly forbidden

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 2019-04-29.

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
- 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

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 harm if used improperly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with the directions for 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)