



Trade name: Marabu Alcohol Ink 334,20ml Blister

Version: 4 / GB

Date revised: 06.09.2023

Substance number: 12160059334

Replaces Version: 3 / GB

Print date: 15.11.2024

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

### **1.1. Product identifier**

Marabu Alcohol Ink 334,20ml Blister

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

#### **Use of the substance/preparation**

Paint

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

#### **Address/Manufacturer**

Marabu GmbH & Co. KG

Asperger Strasse 4

71732 Tamm

Deutschland

Telephone no. +49-7141/691-0

Information provided by / telephone Department product safety

E-mail address of person responsible for this SDS PRSI@marabu.com

Information provided by / telephone Department product safety

E-mail address of person responsible for this SDS PRSI@marabu.com

### **1.4. Emergency telephone number**

(+49) (0)621-60-43333

## **SECTION 2: Hazards identification \*\*\***

### **2.1. Classification of the substance or mixture**

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225
Eye Irrit. 2	H319
STOT SE 3	H336

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

#### **Hazard pictograms**

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**Signal word**

Danger

**Hazard statements**

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

**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.
- P264.1 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P405 Store locked up.
- P501.9 Dispose of contents/container as problematic waste.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains Propan-2-ol; Butanone

**2.3. Other hazards**

No special hazards have to be mentioned.  
 The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Hazardous ingredients**

**Propan-2-ol**

CAS No.	67-63-0				
EINECS no.	200-661-7				
Registration no.	01-2119457558-25				
Concentration	>= 50	<	100	%	
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 2		H225		
	Eye Irrit. 2		H319		
	STOT SE 3		H336		

**Butanone**

CAS No. 78-93-3



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EINECS no. 201-159-0  
 Registration no. 01-2119457290-43  
 Concentration >= 10 < 20 %  
 Classification (Regulation (EC) No. 1272/2008)  
     Eye Irrit. 2 H319  
     STOT SE 3 H336  
     Flam. Liq. 2 H225

**2-(Propyloxy)ethanol**

CAS No. 2807-30-9  
 EINECS no. 220-548-6  
 Concentration >= 10 < 25 %  
 Classification (Regulation (EC) No. 1272/2008)  
     Acute Tox. 4 H312  
     Eye Irrit. 2 H319

cATpE dermal 1.100 mg/kg

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

**After inhalation**

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

**After skin contact**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

**After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

**After ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

**Adhere to personal protective measures when giving first aid**

Use personal protective equipment in case of possible contact with the product (see section 8).

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further symptoms are possible.

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

**Hints for the physician / treatment**

Treat symptomatically



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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray/mist

#### **Non suitable extinguishing media**

water jet

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

In the event of fire the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); dense black smoke; Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required.

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Wear full chemical protective clothing. Fire fighter's clothing must conform to European standard EN469.

#### **Other information**

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

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

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

For non-emergency personnel: Keep away sources of ignition. Remove persons to safety. Ensure adequate ventilation. Keep away unprotected persons. Avoid contact with skin, eyes and clothing. Avoid breathing vapours. For emergency responders: Wear personal protective equipment. Use breathing apparatus if exposed to vapours/dust/aerosol.

### **6.2. Environmental precautions**

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

### **6.4. Reference to other sections**

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Due to the organic solvents' content of the mixture: Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.



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Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Avoid skin and eye contact. Avoid the inhalation of particulates and spray mist arising from the application of this mixture. Smoking, eating and drinking shall be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.

**Advice on protection against fire and explosion**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

**Classification of fires / temperature class / Ignition group / Dust explosion class**

Classification of fires            B (Combustible liquid substances)  
 Temperature class                T2

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

**Requirements for storage rooms and vessels**

Store in accordance with national regulation

**Hints on storage assembly**

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

**Further information on storage conditions**

Observe label precautions. Store between 15 and 30 °C in a dry, well ventilated place away from sources of heat and direct sunlight. If the storage conditions are not observed, the minimum shelf life is no longer guaranteed. Due to the organic solvents' content of the mixture: Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**7.3. Specific end use(s)**

Paint

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limit values**

**Propan-2-ol**

List	EH40			
Type	WEL			
Value	999	mg/m <sup>3</sup>	400	ppm(V)
Short term exposure limit	1250	mg/m <sup>3</sup>	500	ppm(V)
Status:	2011			

**Butanone**

List	EH40			
Type	WEL			
Value	600	mg/m <sup>3</sup>	200	ppm(V)
Short term exposure limit	899	mg/m <sup>3</sup>	300	ppm(V)

Skin resorption / sensibilisation: SkStatus: 2011; Remarks: BMGV

**Butanone**

List	EU
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**Safety data sheet in accordance with regulation (EC) No 1907/2006**

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Value	600	mg/m <sup>3</sup>	200	ppm(V)
Short term exposure limit	900	mg/m <sup>3</sup>	300	ppm(V)

Remarks: 2000/39/EG

**Derived No/Minimal Effect Levels (DNEL/DMEL)****Propan-2-ol**

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 500 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

Route of exposure dermal

Mode of action Systemic effects

Concentration 888 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group General Population

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 89 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)

Reference group General Population

Duration of exposure Long term

Route of exposure dermal

Mode of action Systemic effects

Concentration 319 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group General Population

Duration of exposure Long term

Route of exposure oral

Mode of action Systemic effects

Concentration 26 mg/kg/d

**Predicted No Effect Concentration (PNEC)****Propan-2-ol**

Type of value PNEC

Type Freshwater

Concentration 140,9 mg/l

Type of value PNEC



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Type	Saltwater	
Concentration	140,9	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	2251	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	552	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	552	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	28	mg/kg

## 8.2. Exposure controls

### Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

### General protective and hygiene measures

Observe the usual precautions for handling chemicals. Wearing closed work clothing is required. Wash hands and / or face before breaks and after work. Take off dirty, soaked clothes immediately. Wash soiled clothing before re-use. Store work clothing separately.

### Respiratory protection

If workers could be exposed to concentrations above the exposure limit they should use a respirator to EN 140, fitted with a filter suitable for both particulates and vapours, to EN 14387, with an assigned protection factor of at least 10 (e.g. A2P3) Selection of any respiratory protective equipment should ensure that it is adequate to reduce exposure to protect the worker's health and is suitable for the wearer, task and environment, including consideration of the facial features of the wearer.

### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

Use gloves tested according to EN ISO 374.

For prolonged or repeated handling, use

Appropriate Material	Butyl rubber	
Material thickness	> 0,7	mm
Breakthrough time	> 480	min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.



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The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

**Eye protection**

Use safety eyewear tested according to EN ISO 16321-1 designed to protect against splash of liquids.

**Body protection**

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre. Cotton or cotton/synthetic overalls or coveralls are normally suitable.

**Environmental exposure controls**

Do not allow to enter drains or water courses. If the legally prescribed emission limits are exceeded, a suitable exhaust air purification system must be installed.

**SECTION 9: Physical and chemical properties**

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

<b>Physical state</b>	liquid	
<b>Colour</b>	coloured	
<b>Odour</b>	solvent-like	
<b>Melting point</b>		
Remarks	Not applicable due to nature of the product	
<b>Freezing point</b>		
Remarks	Not applicable due to nature of the product	
<b>Boiling point or initial boiling point and boiling range</b>		
Value	appr. 78	°C
<b>Flammability</b>		
Flammable.		
<b>Upper and lower explosive limits</b>		
Reference substance	Butanone	
Lower explosion limit	appr. 1,5	%(V)
Reference substance	Propan-2-ol	
Upper explosion limit	appr. 12,1	%(V)
Source	Literature value	
<b>Flash point</b>		
Value	12	°C
<b>Auto-ignition temperature</b>		
Value	appr. 425	°C
Source	Literature value	
<b>Decomposition temperature</b>		
Remarks	No decomposition if used as prescribed.	
<b>pH value</b>		
Remarks	Not applicable	
Remarks	substance/mixture is non-soluble (in water)	





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**Viscosity**

Remarks  
Remarks not determined

**Solubility(ies)**

Remarks Not applicable due to nature of the product

**Partition coefficient n-octanol/water (log value)**

Remarks Not applicable due to nature of the product

**Vapour pressure**

Value appr. 45 hPa

**Density and/or relative density**

Value 0,85 g/cm<sup>3</sup>  
Temperature 20 °C  
Method DIN EN ISO 2811

**Relative vapour density**

Value > 1  
Source Literature value

**Particle characteristics**

Remarks Not applicable due to nature of the product

**9.2. Other information****Other information**

The physical specifications are approximate values and refer to the used safety relevant component(s).

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (see section 7).

**10.3. Possibility of hazardous reactions**

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**10.4. Conditions to avoid**

Protect from heat/overheating. When exposed to high temperatures may produce hazardous decomposition products. Avoid high concentrations of solvent vapours. Observe the notes on ventilation (section 8).

**10.5. Incompatible materials**

Oxidising agents, strongly alkaline substances, Strongly acidic substances

**10.6. Hazardous decomposition products**

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture). No decomposition during intended use (see section 1).

**SECTION 11: Toxicological information**



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

### Acute oral toxicity

Remarks Based on available data, the classification criteria are not met.

### Acute dermal toxicity

ATE > 2.000 mg/kg

Method calculated value (Regulation (EC) No. 1272/2008)

### Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

### Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

### Serious eye damage/irritation

evaluation irritant

Remarks The classification criteria are met.

### Sensitization

Remarks Based on available data, the classification criteria are not met.

### Mutagenicity

Remarks Based on available data, the classification criteria are not met.

### Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

### Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

### Specific Target Organ Toxicity (STOT)

#### Single exposure

Remarks The classification criteria are met.

evaluation May cause drowsiness or dizziness.

#### Repeated exposure

Remarks Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

### Experience in practice

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and



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immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### **Other information**

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

#### **General information**

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

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

#### **General information**

No data available

### **12.3. Bioaccumulative potential**

#### **General information**

There are no data available on the mixture itself.

#### **Partition coefficient n-octanol/water (log value)**

Remarks Not applicable due to nature of the product

### **12.4. Mobility in soil**

#### **General information**

There are no data available on the mixture itself.

### **12.5. Results of PBT and vPvB assessment**

#### **General information**

There are no data available on the mixture itself.

#### **Results of PBT and vPvB assessment**

The product contains no PBT substances

The product contains no vPvB substances.

### **12.6 Endocrine disrupting properties**

#### **Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

### **12.7. Other adverse effects**

#### **General information**

There are no data available on the mixture itself.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

**Safety data sheet in accordance with regulation (EC) No 1907/2006**

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**Disposal recommendations for the product**

Do not allow to enter drains or water courses.

Wastes and emptied containers should be classified in accordance with relevant national regulation.

The European Waste Catalogue classification of this product, when disposed of as waste is

EWC waste code 08 01 11\* waste paint and varnish containing organic solvents or other dangerous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information contact your local waste authority.




**Disposal recommendations for packaging**

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions.

**SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Special provision	640D		
Limited Quantity	5 l	5 l	
Transport category	2		
14.5. Environmental hazards	-		
Tunnel restriction code	D/E		

**Information for all modes of transport****14.6. Special precautions for user**

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Other information****14.7. Maritime transport in bulk according to IMO instruments**



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Not applicable

## **SECTION 15: Regulatory information**

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

#### **VOC**

VOC (EU)	86	%
VOC (EU)	731	g/l

#### **Other regulations, restrictions and prohibition regulations**

The product complies with the requirements of the Persistent Organic Pollutants Regulation 2019/1021.

The product complies with the requirements of Regulation 2024/590 on substances that deplete the ozone layer.

The product is not subject to Regulation 649/2012 on the export and import of dangerous chemicals.

#### **Other information**

The product does not contain substances of very high concern (SVHC).

#### **Other information**

All components are contained in the TSCA inventory or exempted.

All components are contained in the DSL inventory.

All components are contained in the ECL inventory.

### **15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

#### **Hazard statements listed in Chapter 3**

H225	Highly flammable liquid and vapour.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

#### **CLP categories listed in Chapter 3**

Acute Tox. 4	Acute toxicity, Category 4
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

#### **Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible

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for ensuring that the requirements of relevant legislation are complied with.  
The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.