# **SAFETY DATA SHEET** Sinol 100

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: Identification of the substance / mixture and of the company / undertaking		
Date issued	28.09.2022	
Revision date	17.04.2023	
1.1. Product identifier		
Product name	Sinol 100	
Article no.	12. 52011, 52012, 52017, 52018	
GTIN No.	6414501406591, 6414504270908, 6414501406584	
1.2. Relevant identified us	es of the substance or mixture and uses advised against	
Use of the substance / mixture	Fuel, solvent.	
Main intended use	PC-FUE-OTH Other fuels	
Secondary uses	PC-TEC-21 Solvents and extraction agents	
Industrial use	Yes	
Professional use	Yes	
Consumer use	Yes	
1.3. Details of the supplier	of the safety data sheet	
Manufacturer		
Company name	Berner Ltd/Car care	
Office address	Hitsaajankatu 24	
Postal address	P.O.Box 22	
Postcode	FI-00811	

Helsinki

Finland

+3582079100

korrek-lasol@berner.fi

1.4. Emergency telephone number

City

Country

Email

Telephone number

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

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] Flam. Liq. 2; H225 Eye Irrit. 2; H319

### 2.2. Label elements

### Hazard pictograms (CLP)

······································	
Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.
Precautionary statements	<ul> <li>P102 Keep out of reach of children.</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed.</li> <li>P305 IF IN EYES: P351 Rinse cautiously with water for several minutes.</li> <li>P501 Dispose of contents / container to according to local regulations.</li> </ul>

### 2.3. Other hazards

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

3.2. Mixtures				
Substance	Identification	Classification	Contents	Notes
ethanol	CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5 REACH Reg. No.: 01-21194557610-43-xxxx	Flam. Liq. 2; H225 Eye Irrit. 2; H319	90 - 100 %	
isopropanol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH Reg. No.: 01-2119457558-25-xxxx	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	1 - 5 %	
methyl ethyl ketone	CAS No.: 78-93-3 EC No.: 201-159-0 REACH Reg. No.: 01-2119457290-43-xxxx	Flam. Liq. 2;H225 Eye Irrit. 2;H319 EUH066 STOT SE 3;H336	~ 2 %	

## **SECTION 4: First aid measures**

4.1. Description of first aid measures		
Inhalation	Move to fresh air. If symptoms persist, call a physician.	
Skin contact	Rinse with water. If skin irritation persists, call a physician.	

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Eye contact	Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.
Ingestion	Induce vomiting if person is conscious. Consult a physician if necessary.
4.2. Most important symp	toms and effects, both acute and delayed
General symptoms and effects	-
4.3. Indication of any imm	ediate medical attention and special treatment needed
Medical treatment	Treat symptomatically.
SECTION 5: Firefighting	g measures
5.1. Extinguishing media	
Suitable extinguishing media	Use dry chemical, CO2, water spray or alcohol foam.
Improper extinguishing media	-
5.2. Special hazards arisir	ng from the substance or mixture
Fire and explosion hazards	Highly flammable liquid and vapour.
5.3. Advice for firefighters	3
Personal protective equipment	Self-contained breathing apparatus
SECTION 6: Accidental	release measures
6.1. Personal precautions	, protective equipment and emergency procedures
General measures	Keep people away from and upwind of spill/leak. Remove all sources of ignition.
6.2. Environmental precau	itions
Environmental precautionary measures	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.
6.3. Methods and materia	l for containment and cleaning up
Clean up	Small amounts: Flush area with water. Large amounts : Soak up with inert absorbent material and dispose of as hazardous waste.
6.4. Reference to other se	ctions
Other instructions	-
SECTION 7: Handling a	nd storage
7.1. Precautions for safe I	nandling
Handling	Keep away from sources of ignition - No smoking. Take precautionary measures

against static discharges. Provide sufficient air exchange and/or exhaust in work rooms.

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

Storage

Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Flammable liquid

### 7.3. Specific end use(s)

Specific use(s)

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

8.1. Control paramet	ters		
Substance	Identification	Exposure limits	TWA Year
ethanol	CAS No.: 64-17-5	Limit value (8 h) : 1000 ppn Limit value (8 h) : 1900 mg, m3 Limit value (short term) Value: 1300 ppm Limit value (short term) Value: 2500 mg/m3	
isopropanol	CAS No.: 67-63-0	Limit value (8 h) : 200 ppm Limit value (8 h) : 500 mg/ m3 Limit value (short term) Value: 250 ppm Limit value (short term) Value: 620 mg/m3	
methyl ethyl ketone	CAS No.: 78-93-3	<b>Limit value (short term)</b> Value: 100 ppm <b>Limit value (short term)</b> Value: 300 mg/m3	
DNEL / PNEC			
DNEL	end use/worker), mg/m3 (chronic e effect/end use/co effect/end use/wo	iol: Application Route/ Inhalation: 1900 mg/m3 (acute effect, local e effect/end use/consumer), 950 m onsumer) Application Route/ Skin orker/ Exposure time 1 d), 206 mg ure time 1 d) Application Route/ I	effect/end use/worker), 114 g/m3 (acute effect, local contact: 343 mg/kg (chronic g/kg (chronic effect/end use/

effect/end use/consumer/ Exposure time 1 d)

PNEC

Comments: Ethanol: Untreated waste water: 580 mg/l, Local clean Water : 0.96 mg/l, Terrestrial Compartment : 0.63 mg/kg, Marine water : 0.79 mg/l

### 8.2. Exposure controls

### Precautionary measures to prevent exposure

Product related measures to	Handle in accordance with good industrial hygiene and safety practice.
prevent exposure	

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Eye / face protection		
Required Properties	If splashes are likely to occur, wear: Use Safety glasses with side-shields conforming to EN166	
Hand protection		
Skin- / hand protection, short term contact	Under normal conditions of use gloves are not normally required.	
Skin- / hand protection, long term contact	Chemical resistant gloves required for prolonged or repeated contact.	
Required properties for hand protection	Rubber or plastic gloves	
Skin protection		
Protective clothing necessary properties	Normal work clothes are adequate.	
Respiratory protection		
Respiratory protection necessary at	Under normal conditions of use respiration protection should not be required.	
Appropriate environmental	exposure control	
Environmental exposure controls	Large amounts: Do not discharge into drains, water courses or onto the ground.	
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		

Physical state	Clear liquid
Odour	Characteristic.
рН	Status: In delivery state Comments: Not relevant.
Boiling point / boiling range	Value: 78 °C Comments: Ethanol
Flash point	Value: ~ 12 °C Comments: Ethanol
Lower explosion limit with unit of measurement	Value: 3,3 vol% Comments: Ethanol
Upper explosion limit with units of measurement	Value: 19 vol% Comments: Ethanol
Vapour pressure	Value: 5,9 kPa Comments: Ethanol
Density	Value: ~ 810 kg/m³ Temperature: 20 °C
Solubility	Medium: Water Comments: soluble

Partition coefficient: n-octanol/ Comments: Ethanol log Pow = -0,3

water Auto-ignition temperature

Value: 363 °C Comments: Ethanol

### 9.2. Other information

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stability

Stable at normal ambient temperature and pressure.

# 10.3. Possibility of hazardous reactions 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

Conditions to avoid	

Heat, flames and sparks. Vapours may form explosive mixture with air.

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

### 10.6. Hazardous decomposition products

Hazardous decomposition	Thermal decomposition can lead to release of irritating gases and vapours.
products	

### **SECTION 11: Toxicological information**

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

#### Other information regarding health hazards Assessment of acute toxicity, LD50/oral/rat >2000 mg/kg (according to data from raw materials) classification Assessment of eye damage or Irritating. irritation, classification Inhalation May cause irritation of respiratory tract. Assessment of carcinogenicity, Based on available data, the classification criteria are not met. classification Specific target organ toxicity -Overexposure may cause headache and irritation to eyes and mucous single exposure, human membrane. Ingestion of large amounts may cause alcoholpoisoning. experience

Specific target organ toxicity - repeated exposure, human experience	Repeated and prolonged use of ethanol will result in cirrhosis of the liver.
11.2 Other information	
Endocrine disruption	This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

# SECTION 12: Ecological information

12.1. Toxicity	
Ecotoxicity	Not classified as dangerous to the environment.
12.2. Persistence and degr	adability
Persistence and degradability description/evaluation	Ethanol: Hydrolytic stable, $T\frac{1}{2}$ = ca. 4 - 6 days in the atmosphere. Ethanol: BOD5/ COD >0,5; > 80% / 4 vrk (OECD TG 301)
12.3. Bioaccumulative pote	ential
Bioaccumulation, evaluation	Ethanol: log Pow= -0,3, low.
12.4. Mobility in soil	
Mobility	Mobile liquid. Soluble in water. The product evaporates readily.
12.5. Results of PBT and vi	PvB assessment
Results of PBT and vPvB assessment	This product does not contain any PBT or vPvB substances.
12.6. Endocrine disrupting	properties
Endocrine disrupting properties	This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
12.7. Other adverse effects	; ;
Additional ecological information	None known.

# **SECTION 13: Disposal considerations**

13.1. Waste treatment methods		
Appropriate methods of disposal for the chemical	Dangerous waste. Dispose of waste and residues in accordance with local authority requirements.	
Appropriate methods of disposal for the contaminated packaging	If recycling is not practicable, dispose of in compliance with local regulations.	

# SECTION 14: Transport information

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Dangerous goods	Yes		
14.1. UN number			
ADR/RID/ADN	1170		
IMDG	1170		
ICAO/IATA	1170		

142 IIN	nronar el	hipping name
14.2. UN	higher a	

Proper shipping name English ADR/RID/ADN	ETHANOL SOLUTION
ADR/RID/ADN	ETHANOL SOLUTION
IMDG	ETHANOL SOLUTION
ICAO/IATA	ETHANOL SOLUTION

14.3. Transport hazard class(es)	
ADR/RID/ADN	3
Classificaton code ADR/RID/ADN	F1
IMDG	3
ICAO/IATA	3

14.4. Packing group	
ADR/RID/ADN	П
IMDG	II
ICAO/IATA	П

### 14.5. Environmental hazards

### 14.6. Special precautions for user

# 14.7. Maritime transport in bulk according to IMO instruments

Additional information	
Hazard label ADR/RID/ADN	3
Hazard label IMDG	3
Hazard label ICAO/IATA	3

ADR/RID Other information	
Tunnel restriction code	D/E
Transport category	2
Hazard No.	33

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### IMDG Other information

EmS

F-E, S-D

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### **SECTION 15: Regulatory information**

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

Legislation and regulations

### 15.2. Chemical safety assessment

Chemical safety assessment

SECTION 16: Other information		
List of relevant H-phrases (Section 2 and 3)	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.	
Additional information	Manufacturer and the label of the product.	
Key literature references and sources for data	REACH and CLP MSDS of the raw materials.	
Information added, deleted or revised	Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.	
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