

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2015/830,
According to REGULATION (EC) No 1272/2008

Solketal

Version 1.0

Issue date: 25-01-2022

Revision date: 25-01-2022

SDS Record Number: CSSS-TCO-010-131161

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Solketal
Additional identification: Not available
Identification of the product: See section 3
Index Number: See section 3
REACH registration No.: See section 3

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

1.2.1 Identified uses:

An intermediate of shark liver alcohol, universal solvent, plasticizer, pharmaceutical excipients, used as a synthesis of mono-, di- and triglycerides.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): -
Supplier(Manufacturer): Zhejiang Boju New Material Co.,LTD
Address: No.19 Tongji Road Shuige Industrial Zone Lishui city(323000), Zhejiang, China
Contact person(E-mail): Alina_xia@boadge.com
Telephone: 0086-578-2134101
Fax: 0086-578-2126428

1.4 Emergency telephone Number:

0086-578-2697826

Available outside office hours? YES NO

Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification:

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Eye Irrit. 2A	H319

For full text of H- phrases: see section 2.2.

2.2 label elements:

Hazard Pictograms:



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Signal Word(S):	Warning
Hazard Statement:	H319: Causes serious eye irritation.
Precautionary statement:	P264: Wash hands thoroughly after handling. 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. P337 + P313: If eye irritation persists: Get medical advice/attention.

2.3 Other hazards:

Not applicable.

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	Classification
2,2-dimethyl-1,3-dioxolan-4-ylmethanol	N/A	100-79-8	202-888-7	97~99.5%	H319
2,2-dimethyl-1,3-dioxan-5-ol	N/A	3391-30-8	815-219-4	0.5~3%	H315 H319 H335

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Move the person away from the contaminated area. Make the affected person rest.

4.1.2 In case of skin contact:

Remove all contaminated clothing and footwear. Wash with water.

4.1.3 In case of eyes contact:

Rinse with running water whilst keeping the eyes wide open (at least 15 minutes).

4.1.4 In case of ingestion:

Never attempt to induce vomiting. Rinse mouth out with water.

4.2 Most important symptoms and effects, both acute and delayed:

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Water spray - Foam - Multi-purpose powders - carbon dioxide (CO₂)

Unsuitable extinguishing media: Strong water jet.

5.2 Special hazards arising from the substance or mixture

On heating or during combustion: Toxic gases or vapors are released.

5.3 Advice for firefighters:

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Wear chemical resistant oversuit. Cool containers / tanks with water spray.

Section 6 Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Do not breathe vapors. Avoid contact with skin and eyes. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.

6.1.2 For emergency responders: Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ventilate the area. Wear suitable protective clothing.

6.2 Environmental Precautions:

Should not be released into the environment. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for Containment and Cleaning up:

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite).

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures: Ventilation. Does not require any particular or specific measures. Respect the general rules for occupational hygiene.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area. Store away from incompatible materials.

Packaging materials: Recommended: Coated steels.

7.3 Specific end use(s):

Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Ensure adequate ventilation. Apply technical measures to comply with the occupational exposure limits.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Goggles.

Hand protection: Use suitable chemical-resistant protective gloves.

Body protection: Protective clothing with elasticated cuffs and closed neck.

Respiratory protection: Use a suitable respirator.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment.
According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance: Liquid

Colour: Colorless and transparent

Odour: Characteristic odor

Odour threshold: Not available

pH:	Not available
Melting point/range (°C):	< -50 °C(CAS#100-79-8)
Boiling point/range (°C):	192.3 °C(CAS#100-79-8)
Flash point (°C):	90 °C(CAS#100-79-8)
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower explosive limits:	Not available
Vapour pressure (20°C):	>= 0.32 - < 0.36 mBar(CAS#100-79-8)
Vapour density:	Not available
Relative Density:	1.064 (20 °C) (CAS#100-79-8)
Bulk density (kg/m³):	Not available
Water solubility (g/l):	> 171.04 - < 172.6 mg/ml (20 °C) (CAS#100-79-8)
n-Octanol/Water (log Po/w):	-0.6 (20 °C) (CAS#100-79-8)
Auto-ignition temperature:	390 °C(CAS#100-79-8)
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	ca. 11.9 mPa s (20 °C) (CAS#100-79-8)
Explosive properties:	Not available
Oxidising properties:	Not available
9.2. Other information:	
Fat solubility(solvent-oil to be specified)	Not available
etc:	
Surface tension:	Not available
Dissociation constant in water(pKa):	> 6.4 - < 6.64(CAS#100-79-8)
Oxidation-reduction Potential:	Not available

Section 10 Stability and reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials.
10.5 Incompatible materials:	Strong oxidizing agents.
10.6 Hazardous decomposition products:	Carbon oxides.

Section 11 Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:	
ATE_{mix}(oral):	Not available
ATE_{mix}(inhalation):	Not available
ATE_{mix}(Dermal):	Not available
2,2-dimethyl-1,3-dioxolan-4-ylmethanol(CAS#100-79-8)	
LD50(Oral, Rat):	7000 mg/kg bw
LC50(Inhalation, Rat):	Not available
LD50(Dermal, Rat):	> 2000 mg/kg bw

Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

Section 12 Ecological information

12.1 Toxicity:

2,2-dimethyl-1,3-dioxolan-4-ylmethanol(CAS#100-79-8)

Acute (short-term) toxicity:

LC50(96h, Fish):	16.7 g/L
EC50(48h, Crustacea):	> 96 mg/L
EC50(72h, Algae/aquatic plants):	> 92 mg/L

Chronic (long-term) toxicity:

NOEC(Fish):	Not available
NOEC(Crustacea):	10 mg/L
NOEC(Algae/aquatic plants):	92 mg/L

12.2 Persistence and degradability: Not available.

12.3 Bioaccumulative potential: Not available.

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB assessment: Not applicable

12.6 Other adverse effects: Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible, otherwise incineration is the recommended method of disposal. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

Section 14 Transport information

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	Not regulated	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated

Transport hazard Class(es)	Not regulated	Not regulated	Not regulated	Not regulated
Packing group	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of Marpol and the IBC Code	Not regulated	Not regulated	Not regulated	Not regulated

Section 15 Regulatory information

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

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed.
For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical safety assessment YES NO

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2015/830

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Registered substances data

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Eye Irrit. 2A	H319 Calculation method

16.5 Relevant H-statements (number and full text):

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

16.6 Training instructions:

Not applicable.

16.7 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.8 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Author: Hangzhou REACH Technology Group Co., Ltd. **Website:** www.cirs-group.com **Tel:** 0571-87206555 **Email:** info@cirs-group.com