SAFETY DATA SHEET

SOLKETAL

Revision Date 2025-09-17 / Version: 1.0

1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name
Solketal

Relevant identified uses and uses advised against
Recommended use
Chemical intermediate; solvent or process chemical; for industrial or laboratory use.
Uses advised against
Uses other than those identified above, unless supported by an appropriate risk assessment.

Details of the supplier of the safety data sheet
Palica Chemistry Co.,Limited
Add: 181 Taibai Rd., Xi'an 710065, P.R.China.
Email: info@palica.com.cn

Emergency Phone
800-424-9300 (USA)
+86-29-8928-7466 (Outside USA)

2 - HAZARDS IDENTIFICATION

Emergency Overview
GHS Classification according to Regulation (EC) No 1272/2008
Serious eye damage / eye irritation: Category 2
Combustible liquid: Category 4

GHS Label elements, including precautionary statements
Pictogram



Signal word
Warning

Hazard statements
H319 - Causes serious eye irritation.
H227 - Combustible liquid. (OSHA classification; confirm applicability in the destination jurisdiction.).

Precautionary statements
Prevention
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264 - Wash hands and exposed skin thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

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.
P370 + P378: In case of fire: Use carbon dioxide, dry chemical or alcohol-resistant foam to extinguish.

Storage
P405 - Store locked up.
P403+P235 - Store in a well-ventilated place. Keep cool.

Disposal
P501 - Dispose of contents and container through an appropriately licensed waste disposal contractor in accordance with applicable local, regional and national regulations.

Other hazards
No additional hazards are known when the product is handled and stored according to recommended industrial hygiene and safety practices.

3 - COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	EC No.	Concentration
2,2-Dimethyl-1,3-dioxolane-4-methanol (Solketal)	100-79-8	202-888-7	99~100%

4 - FIRST AID MESURES

General advice
Immediate medical attention is required following significant exposure.
Show this Safety Data Sheet to the attending physician.
First-aid personnel should avoid direct contact with the product and wear appropriate protective equipment.

Inhalation
Move the person to fresh air. Keep at rest in a position comfortable for breathing.
Get medical advice if symptoms occur or persist.

Skin contact
Remove contaminated clothing. Wash skin thoroughly with plenty of water.
Get medical advice if irritation develops or persists.

Eye contact
Rinse cautiously with clean water for at least 15 minutes, including under the eyelids.
Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention, especially if irritation persists.

Ingestion
Rinse the mouth with water. Do not give anything by mouth to an unconscious person.
Seek medical advice if the person feels unwell.

Most important symptoms and effects, both acute and delayed
Serious eye irritation may occur. Overexposure may be associated with headache, dizziness, tiredness, nausea or vomiting.
The toxicological properties have not been fully investigated.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically. Contact a poison centre or physician if significant exposure or symptoms occur.

5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media
Carbon dioxide, dry chemical, alcohol-resistant foam or water spray.

Unsuitable extinguishing media
No specific restrictions are known. Avoid using a direct water jet where it could spread burning liquid.

Special hazards during fire fighting
No data available.

Special hazards arising from the substance or mixture
Combustion may produce carbon monoxide and carbon dioxide.
Heating closed containers may cause pressure build-up and rupture.
Vapour may form combustible mixtures with air under suitable conditions.

Hazardous thermal decomposition products
No data available.

Special protective actions for fire-fighters
No data available.

Advice for fire-fighters
Wear self-contained breathing apparatus and full protective equipment.
Use water spray to cool containers exposed to fire. Prevent fire-fighting water from entering drains or waterways.

Further information
No data available.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Provide adequate ventilation. Remove ignition sources and avoid sparks. Avoid contact with eyes and skin.
Wear suitable protective equipment, including eye protection and gloves. Keep unnecessary personnel away from the spill area.

Environmental precautions
Prevent entry into drains, surface water and soil. Inform the relevant authorities if a substantial release reaches waterways or the environment.

Methods and materials for containment and cleaning up
Contain the spill where safe to do so. Absorb with an inert, non-combustible material such as sand or universal absorbent.
Transfer the absorbed material to a suitable, closed and labelled container for disposal.
Clean the affected area while preventing washings from entering drains. Use non-sparking tools where appropriate.

7 - HANDLING AND STORAGE

Precautions for safe handling
Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing vapours or mists.
Keep away from heat, sparks, hot surfaces and open flames.
Use appropriate grounding and bonding procedures where static discharge may be a concern.
Do not eat, drink or smoke while handling. Wash thoroughly after use.

Conditions for safe storage, including any incompatibilities
Keep the container tightly closed in a cool, dry, well-ventilated place.
Protect from excessive heat and direct sources of ignition. Store away from strong oxidizing agents and acids.
Follow the supplier's product-quality storage instructions.

Specific end uses
No data available.

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters
No occupational exposure limit has been established for this substance.

Personal protective equipment
Appropriate engineering controls
Provide adequate general ventilation. Use local exhaust ventilation where vapour or mist may be generated.
Provide access to an eyewash station and safety shower.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice.
Remove contaminated clothing and wash it before reuse.

Eye/face protection
Wear safety glasses with side shields or chemical splash goggles where splashing is possible.

Hand protection
Wear chemical-resistant protective gloves.
Suitable glove materials may include nitrile rubber or other materials demonstrated to provide adequate chemical resistance.
Glove breakthrough time should be confirmed with the glove manufacturer for the specific conditions of use.

Skin and Body protection
Wear suitable protective clothing.
Select gloves based on the task, exposure conditions and glove manufacturer's compatibility and breakthrough-time data.

Respiratory protection
Not normally required when ventilation is adequate.
If exposure limits are exceeded, ventilation is inadequate, or irritation occurs, use a suitable respirator selected under applicable workplace respiratory-protection requirements.

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Discharge into the environment must be avoided.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical state: Liquid.
Color: Colorless
Odor: Odorless
Odor threshold: No data available

Safety data
pH: No data available
Melting point/Freezing point: Approx. -50°C
Boiling point: Approx. 188-189°C at 760 mmHg
Flash point: Approx. 90°C, closed cup
Density: No data available
Viscosity: No data available
Ignition temperature: No data available
Lower explosion limit: No data available
Upper explosion limit: No data available
Partition coefficient(n-octanol/water): No data available
Water solubility: Miscible / highly soluble
VOC (w/w): No data available

10 - STABILITY AND REACTIVITY

Reactivity
No hazardous reactivity is expected under normal conditions of use and storage.

Chemical Stability
Stable under normal recommended storage and handling conditions.

Possibility of hazardous reactions
No hazardous reactions are known under normal processing conditions.

Hazardous decomposition products
Carbon monoxide and carbon dioxide may be generated during combustion or thermal decomposition.

Conditions to avoid
Avoid excessive heat, hot surfaces, sparks, open flames and other ignition sources.

Incompatible materials
Strong oxidizing agents and acids.

11 - TOXICOLOGICAL INFORMATION

Primary routes of exposure
No data available.

Acute toxicity
No data available.

Skin corrosion / irritation
No data available.

Serious eye damage / eye irritation
Causes serious eye irritation.
Classification: Eye Irritation Category 2A.

Respiratory or skin sensitization
No data available.

Germ cell mutagenicity
No data available.

Carcinogenicity
No data available.

Reproductive toxicity
No data available.

Specific target organ toxicity - single exposure (Globally Harmonized System)
No data available.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)
No data available.

Aspiration hazard
No data available.

Subacute to chronic toxicity
No data available.

Additional Information
No data available.

12 - ECOLOGICAL INFORMATION

Toxicity
No data available.

Persistence and degradability
No data available.

Biodegradability
No data available.

Bioaccumulative potential
No data available.

Mobility in soil
No data available.

PBT and vPvB conclusion
No data available.

Other adverse effects
No data available.

13 - DISPOSAL CONSIDERATIONS

Dispose of product residues and contaminated absorbents in accordance with applicable local, regional and national regulations.
Do not discharge significant quantities into drains or natural waterways.
Empty containers may retain product residues and should be handled accordingly.
Where permitted, recovery or recycling should be considered before disposal.

14 - TRANSPORT INFORMATION

IMDG
Not classified as dangerous goods under transport regulations.

IATA
Not classified as dangerous goods under transport regulations.

15 - REGULATORY INFORMATION

This product should be handled in accordance with applicable chemical safety, occupational health and environmental regulations in the country or region where it is supplied.
CAS No.: 100-79-8
EC No.: 202-888-7
GHS hazard classification:
Serious Eye Damage/Eye Irritation Category 2
Combustible Liquid Category 4 (US OSHA classification; applicability may vary by jurisdiction)
Chemical inventory and regulatory status should be confirmed for the intended country of import and use.
For supply into specific jurisdictions including the United States, European Union, United Kingdom, Canada, Australia, Japan, Korea and other markets, applicable national chemical inventory and regulatory requirements must be separately confirmed.

16 - OTHER INFORMATION

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