

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: R (-) MANDELIC ACID
CAS#: 611-71-2
C.I. No.: Not available.
Synonym : Not available
Chemical Name: Not available.
Chemical Formula: Not available.

Composition and Information on Ingredients

Name	S.K.U	% by Weight
R (-) MANDELIC ACID	GCS-1744	100

Hazards Identification

Classification of the substance or mixture

Classification according to Regulation
(EC) No 1999/45 Classification :
Xi; R41

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Serious eye damage - Category 1 - Danger (CLP :
Eye Dam. 1) H318

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

First Aid Measures

Description of first aid measures:

Inhalation

Assure fresh air breathing. Allow the victim to rest.

Skin contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Ingestion : Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth.

Most important symptoms and effects, both acute and delayed Symptoms relating to use : Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Fire and Explosion Data

Extinguishing media:

Extinguishing media

Suitable extinguishing media : Foam, Dry powder, Carbon dioxide, Water spray, Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Accidental Release Measures

Personal precautions, protective equipment and emergency

Personal precautions, protective equipment and emergency procedures For emergency responders : Equip cleanup crew with proper protection.

Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters.

Notify authorities if

product enters sewers or public waters.

Methods and materials for contain ent and cleaning up

Clean up methods : On land, sweep or shovel into

suitable containers. Minimize generation of dust. Store away from other materials.	
Handling and Storage	
Precautions for safe handling	
Handling	: Wash thoroughly after handling.
Technical protective measures	: Provide good ventilation in process area to prevent formation of
	vapour.
Conditions for safe storage, including any incompatibilities	
Storage	: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.
Storage - away from ignition. Direct sunlight.	: Strong bases. Strong acids. Sources of
Specific end uses	
Specific end use(s)	: None.
Exposure Controls/Personal Protection	
Personal protection	: Avoid all unnecessary exposure.
• Respiratory protection	: Wear approved mask.
• Hand protection	: Wear protective gloves.
• Eye protection	: Chemical goggles or safety glasses.
• Others	: When using, do not eat, drink or smoke.
Control parameters	
Occupational Exposure Limits	: No data available.
Physical and Chemical Properties	
Information on basic physical and chemical properties Physical state at 20 °C	
	: Crystalline
Colour	
	: White
Odour	
	: Characteristic
Odour threshold	
	: No data available.

pH value

: 2,1 at 60 g/l at 20 °C

Melting point [°C]

: 131 - 133°C

Decomposition point [°C]

: N/A

Critical temperature [°C]

: N/A

Auto-ignition temperature [°C]

: N/A

Flammability (solid, gas)

: N/A

Flash point [°C]

: >190 °C

Boiling point [°C]

: N/A

Initial boiling point [°C]

: N/A

Final boiling point [°C]

: N/A

Evaporation rate

: N/A

Vapour pressure [20°C]

: N/A

Vapour pressure mm/Hg

: N/A

Vapour density

: N/A

Density [g/cm³]

: N/A

Relative density, gas (air=1)

: N/A

Relative density, liquid (water=1)

: N/A

Solubility in water

: Soluble

Log Pow octanol / water at 20°C

: No data available.

Solubility

: N/A

Viscosity at 40°C [mm²/s]

: N/A

Other information Explosive properties

: N/A

Explosion limits - upper [%]

: N/A

Explosion limits - lower [%]

: N/A

Oxidising properties

: N/A

Stability and Reactivity Data

Reactivity

Reactivity : Not established.

Chemical stability

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous reactions : Not established.

Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

Incompatible materials

Materials to avoid : Strong acids. Strong bases.

Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

Toxicological Information

Information on toxicological effects

Acute toxicity : LD50-oral-rat-5.000 mg/kg

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

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

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

Corrosion : Causes serious eye damage.

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

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

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

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the

classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

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

Ecological Information

Toxicity

Toxicity information : Not established.

Persistence – degradability

Persistence -

degradability :

Biodegradable.

Bioaccumulative

potential

Bioaccumulative

potential : Not

established.

Mobility in soil

Mobility in soil : Not established.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Other adverse effects

Environmental precautions : Avoid release to the environment.

Disposal Considerations

Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

Transformation Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG) [English only]

General information : Not regulated.

Air transport (ICAO-IATA) [English only]

General information : Not regulated.

Other Regulatory Information

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

Safety, health and environmental : Ensure all national/local regulations are observed.
regulations/legislation specific
for the
substance or
mixture

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions. REACH Authorisation - Annex XIV : The components of this product are not subject to authorization. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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