

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR THE MIXTURE AND OF THE SUPPLIER

1.1 PRODUCT IDENTIFIERS

Product Name: Maltol

Cas No.:118-71-8

Brand: JINGDA

Synonym:3-Hydroxy-2-methyl-4H-pyran-4-one;3-Hydroxy-2-methyl-gamma-pyrone;Larixic acid;Larixinicacid;
2-Methylpyromeconicacid;2-Methyl-3-hydroxypyrone;2-Methyl-3-hydroxy-4-pyrone;2-Methyl-3-oxy-gamma-pyrone;
2-Methylpyromeconicacid,Maltol.

Product Uses: Flavours, Fragrances

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company Name: ANHUI JINHE INDUSTRIAL CO.,LTD

Company Address: No.127 East street, Laian county, Anhui Province, China.

Email Address: info@ajhchem.com

Company/Emergency Phone:+86 550 5619 090

SECTION 2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Acute Tox. 4 (oral) H302

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H302 – Harmful if swallowed

Precautionary statements (GHS-US) :

P264 - Wash skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P301+P312 - If swallowed: call a doctor, a poison center if you feel unwell p330
- rinse mouth

P501 - Dispose of contents/container to a licensed hazardous-waste disposal
contractor or collection site except for empty clean containers which can be
disposed of as non-hazardous waste

2.3. OTHER HAZARDS

No additional information available

2.4. UNKNOWN ACUTE TOXICITY (GHS-US)

Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCE

Name	Product identifier	%	Classification (GHS-US)
Maltol	(CAS No)118-71-8	≥99.5	Acute Tox.4 (Oral), H302.

3.2 MIXTURE

Not applicable

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

First-aid measur1es general :

Check the vital functions. Unconscious: maintain adequate airway and
respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac
arrest: perform resuscitation. Victim conscious with laboured breathing:
half-seated. Victim in shock: on his back with legs slightly raised.

Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering
the victim (no warming up). Keep watching the victim. Give psychological aid.

- Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove the victim into fresh air. Assure fresh air breathing. Allow the victim to rest.
- First-aid measures after skin contact : Wash immediately with lots of water (15 minutes)/shower. Soap may be used. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth with water. Ingestion of large quantities: immediately to hospital. Call Poison Information Centre (www.big.be/antigif.htm). Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Symptoms/injuries after eye contact : ON CONTINUOUS EXPOSURE/CONTACT: Slight irritation.
- Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No additional information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

- Suitable extinguishing media : Water. Polyvalent foam. ABC powder. Carbon dioxide. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : No unsuitable extinguishing media known. Do not use a heavy water stream.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- Fire hazard : DIRECT FIRE HAZARD. Material presenting a fire hazard. In finely divided state: increased fire hazard. INDIRECT FIRE HAZARD. Temperature above flashpoint: higher fire/explosion hazard.
- Explosion hazard : DIRECT EXPLOSION HAZARD. Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD. Dust cloud can be ignited by a spark.
- Reactivity : Heat/fire exposure: compressed air/oxygen apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

5.3 ADVICE FOR FIREFIGHTERS

- Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.
- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
- Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel

- Protective equipment : Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.
- Emergency procedures : Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. Evacuate unnecessary personnel.

Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows. Dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-/explosionproof appliances/lighting equipment.

6.2 ENVIRONMENTAL PRECAUTIONS

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Protective equipment : Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.

Emergency procedures : Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. Evacuate unnecessary personnel.

Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows. Dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-/explosionproof appliances/lighting equipment.

6.4 REFERENCE TO OTHER SECTIONS

See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling : Comply with the legal requirements. Clean contaminated clothing. Powdered form: no compressed air for pumping over. Avoid raising dust. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Maximum storage period : 730 days

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Storage area : Keep container in a well-ventilated place. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: hermetical. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.

7.3. SPECIFIC END USE(S)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Components with occupational exposure limits:

None known.

8.2 EXPOSURE CONTROLS

Measures should be taken to prevent materials from being splashed into the body.

Provide adequate ventilation, according to the conditions of use. Use a mechanical exhaust if required.

8.3 Individual protection measures, such as personal protective equipment

Eye/Face protection	:	Chemical safety goggles are recommended. Was contaminated goggles before reuse
Hand Protection	:	Chemical safety goggles are recommended. Was contaminated goggles before reuse
Body Protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
Respiratory Protection	:	In case of insufficient ventilation, use suitable respiratory equipment.
Environmental exposure controls	:	Emissions from ventilation or process equipment should be checked to ensure they comply with environmental protection legislation. In some cases, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Solid
Appearance	:	Solid. Crystalline powder.
Color	:	White to yellowing
Odor	:	Sweet odor
Odor threshold	:	No data available
pH	:	No data available
Melting point	:	160-164 °C
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	> 100 °C
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Relative vapor density at 20 °C	:	No data available
Molecular mass	:	126.11 g/mol
Solubility	:	Moderately soluble in water. Soluble in ethanol. Soluble in chloroform. Soluble in propyleneglycol.
Log Pow	:	No data available
Log Kow	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

No hazardous reactions if stored and handled as prescribed/indicated.

10.2 CHEMICAL STABILITY

The product is stable if stored and handled as prescribed/indicated.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No hazardous reactions if stored and handled as prescribed/indicated.

10.4 CONDITIONS TO AVOID

Conditions to avoid: Excessive heat, flame or other ignition sources.

10.5 Incompatible materials

Avoid contact with strong acids and bases and oxidizing agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

During combustion may form carbon monoxide and unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	: Oral: Harmful if swallowed.
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Assessment: Toxic to aquatic life.

Experimental/calculated data: No information available.

12.2 degradability

Biodegradation: readily biodegradable.

12.3 Bioaccumulative potential

No information available.

12.4 Soil mobility

No information available.

12.5 Other adverse effects

Do not allow to get into waste water or waterways.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste disposal recommendations	: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
Additional information	: Hazardous waste according to Directive 2008/98/EC.
Ecology - waste materials	: Avoid release to the environment.

14. TRANSPORT INFORMATION

	ADR/RID/ADN	IMDG/IMO	IATA-ICAO
14.1 UN Number	Not regulated	Not regulated	Not regulated
14.2 UN Proper Shipping Name	Not applicable	Not applicable	Not applicable
14.3 Transport Hazard Class (es)	Not applicable	Not applicable	Not applicable
14.4 Packing Group	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	No	No	No
Additional information			

15.REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture
No information available

16.OTHER INFORMATION

Full text of the R-phrases, hazard statements and precautionary statements mentioned in section 3: