SAFETY DATA SHEET (SDS)

Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) 2020/878 and GHS.

Methyl Octalactone

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

1.1 Product Identifier

Product Name: Methyl Octalactone
Chemical Name: 5-Butyldihydro-4-methylfuran-2(3H)-one
CAS Number: 39212-23-2
EC Number: 254-357-4
Supplier Product Code: MOCT-1
Original SDS Date: 18 March 2024
Original SDS Version: CLP V1-R-1-CLP

1.2 Relevant Identified Uses

Industrial Use: Industrial use only.

End Uses: Fragrances, cosmetics and flavours.

1.3 Supplier Information

Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com
Email: info@aromology.com
Telephone: +971 505197601

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

According to the supplier's SDS, the product is not classified as hazardous under CLP/GHS.

2.2 Label Elements

Classification Element	Supplier Declaration
GHS Classification	Not concerned
Hazard Pictograms	None specified
Signal Word	None specified
Hazard Statements	None specified

2.3 Other Hazards

Endocrine Disrupting Properties: No components identified at concentrations of 0.1% or greater under the regulations referenced by the supplier.

PBT Assessment: The supplier states that the substance is not considered persistent, bioaccumulative or toxic.

vPvB Assessment: The supplier states that the substance meets vPvB criteria under REACH Annex XIII.

Important: The supplier's PBT and vPvB statements are retained as written, although they warrant clarification because the assessment describes the substance as meeting vPvB criteria while not meeting PBT criteria.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance Identification

Chemical Name: 5-Butyldihydro-4-methylfuran-2(3H)-one
CAS Number: 39212-23-2
EC Number: 254-357-4
Supplier's GHS Composition Statement: Product not regulated for GHS.
Endocrine Disrupting Constituents: None reported at concentrations of 0.1% or greater.

3.2 Mixtures: Not concerned.

The supplier does not provide a detailed constituent percentage breakdown in Section 3.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation: Move the affected person to fresh air. Keep at rest in a comfortable breathing position. If breathing has stopped, administer artificial respiration by a trained person and obtain emergency medical assistance.
Ingestion: Immediately contact a poison centre or physician. Rinse mouth. Do not induce vomiting.

Skin Contact: Rinse contaminated skin and clothing thoroughly with water. Remove contaminated clothing and wash affected skin with soap and water. Seek medical advice if

symptoms persist.
Eye Contact: Rinse cautiously with water for approximately 15 minutes while keeping eyelids open. Remove contact lenses if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.

4.2 Most Important Symptoms and Effects
Refer to Section 2. No specific symptoms are described.

4.3 Immediate Medical Attention
Provide symptomatic treatment as appropriate. Do not induce vomiting following ingestion.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Carbon dioxide (CO_2)
Dry chemical powder
Foam
Suitable extinguishing agent for the surrounding fire
Unsuitable Extinguishing Media: Direct water jet.

5.2 Special Hazards

The supplier describes the product as non-flammable.
Keep away from excessive heat, sparks and open flames.
The original SDS lists potential combustion products including carbon monoxide, carbon dioxide, nitrogen oxides, sulphur dioxide and cyanides.
These are the supplier's listed potential combustion hazards, not verified decomposition products specific to this substance.

5.3 Advice for Firefighters

Wear suitable protective equipment and self-contained breathing apparatus.
Avoid inhalation of combustion fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Ensure adequate ventilation.
Keep unnecessary personnel away from the affected area.
Avoid contact with skin and eyes.
Do not inhale vapours.
Remove sources of ignition.
Wear appropriate personal protective equipment.

6.2 Environmental Precautions

Prevent entry into drains, groundwater, surface water and soil.
Notify relevant authorities if significant contamination occurs.

6.3 Containment and Cleaning

Contain spills with sand or inert absorbent powder.
Collect contaminated material in sealed containers.
Dispose of waste according to applicable local regulations.
Cleaning should be performed by qualified personnel.

6.4 References

Refer to Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Safe Handling

Maintain adequate ventilation.

Avoid direct contact with skin and eyes.
Avoid inhalation of vapours.
Do not smoke during handling.
Keep away from excessive heat and ignition sources.
Follow good industrial hygiene practices.

7.2 Storage Conditions

Store in the original container in a cool, dry and well-ventilated place.
Protect from direct light.
Keep containers tightly closed and preferably full.
Close containers after use.
If transferring to another container, reproduce the original product labelling.

7.3 Specific End Uses

Wash hands and exposed skin thoroughly after handling and before eating, drinking or smoking.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Parameter	Supplier Information
Occupational Exposure Limits	No data
DNEL – Inhalation	No data
DNEL – Skin Contact	No data

PNEC – Freshwater	No data
PNEC – Marine Water	No data
PNEC – Soil	No data

8.2 Exposure Controls

General ventilation is normally sufficient.

Use local exhaust ventilation or additional engineering controls if exposure conditions require them.

Personal Protective Equipment

Protection	Supplier Recommendation
Hand Protection	Chemical-resistant gloves when risk assessment indicates
Eye Protection	Safety glasses or splash goggles when necessary
Respiratory Protection	Suitable respirator when ventilation is insufficient
Body Protection	Laboratory coat or protective clothing appropriate to exposure
Foot Protection	Resistant, impermeable footwear where necessary

The supplier's SDS initially indicates that routine hand and eye protection is not required, but subsequently recommends protective equipment when a risk assessment identifies exposure hazards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Supplier Specification
Physical State	Liquid
Colour	Colourless to pale yellow
Odour	Woody, coconut, coumarin, wine, creamy
Refractive Index at 20°C	1.441–1.447
Flash Point (Closed Cup)	101°C
Boiling Point	260.6°C
Melting Point	6.3°C
Purity	96–100%
Vapour Pressure	0.00205 mbar at 25°C
Partition Coefficient (log Pow)	2.0
Water Solubility	No
Alcohol Solubility	Yes
Auto-Ignition Temperature	Not provided
Explosive Properties	Not provided

These are the physical and chemical values reported in Section 9 of the original SDS.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
Avoid strong oxidising agents.

10.2 Chemical Stability
Stable under normal conditions.
Shelf Life: 24 months, subject to appropriate storage conditions.

10.3 Possibility of Hazardous Reactions
No hazardous reactions expected when stored and handled as instructed.

10.4 Conditions to Avoid
Excessive heat.

10.5 Incompatible Materials
Oxidising agents, strong acids and strong bases.

10.6 Hazardous Decomposition Products
No dangerous decomposition products are known under the specified conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Endpoint	Supplier Assessment
Phototoxicity	No data
In Vitro Genotoxicity	No data
In Vivo Genotoxicity	No data
Dermal LD50 (Rabbit)	No data
Oral LD50 (Rat)	No data
Skin Irritation	Classification criteria not met
Respiratory / Skin Sensitisation	Classification criteria not met
Serious Eye Damage / Irritation	Classification criteria not met
Endocrine Disrupting Properties	No identified substances at or above 0.1%

The supplier does not provide numerical LD50 values or detailed toxicological study results.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Prevent release into groundwater, surface water, soil and drains.
Aquatic toxicity values: No data provided.

12.2 Persistence and Degradability
Biodegradability: No data.

12.3 Bioaccumulative Potential
Log Pow: 2.0.

12.4 Mobility in Soil
No data.

12.5 PBT and vPvB Assessment
PBT: Supplier reports that the substance is not considered persistent, bioaccumulative and toxic.
vPvB: Supplier reports that the substance meets vPvB criteria under REACH Annex XIII.

12.6 Endocrine Disrupting Properties
No substances identified as having environmental endocrine-disrupting properties at concentrations of 0.1% or greater.

12.7 Other Adverse Effects
Not concerned, according to the supplier.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods
Do not dispose of the material into drains or wastewater systems.
Dispose of product waste and contaminated packaging according to applicable local regulations.
Uncleaned packaging must be handled in accordance with relevant waste management requirements.

SECTION 14: TRANSPORT INFORMATION

Transport Regulation	Classification
ADR / ADN / RID	Not regulated for transport
IMDG	Not regulated for transport
IATA	Not regulated for transport

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not applicable.
14.3 Transport Hazard Class: Not applicable.
14.4 Packing Group: Not applicable.
14.5 Environmental Hazards: Not concerned.
14.6 Special Precautions: Avoid direct contact with the product.
14.7 Maritime Transport in Bulk: The supplier lists IBC packaging information but does not assign a specific bulk transport hazard classification.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations

Regulatory Parameter	Supplier Information
CLP Classification	Not concerned
Water Hazard Class (WGK)	2-ID3560
Customs Tariff	2932209090
REACH Registration Status	Exempt below 1 tonne, as stated by supplier

15.2 Chemical Safety Assessment
Exposure assessment: Not provided.

SECTION 16: OTHER INFORMATION

Original SDS Version: CLP V1-R-1-CLP
Revision Date: 18 March 2024
Print Date: 18 March 2024
Regulatory Format: Supplier states SDS prepared according to Regulation (EU) 2020/878.

Supplier Declaration:

The information is based on the supplier's knowledge at the time of preparation and is intended to describe safety requirements rather than guarantee product properties.

DISCLAIMER

The supplier's physical and chemical specifications, hazard classifications, toxicological information and transport classifications have been retained.

The user is responsible for determining suitability for the intended application and ensuring compliance with applicable legislation.

Authorised by:
Fozia Khot
Director