

ALPHA-METHYLENE-GAMMA-BUTYROLACTONE

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SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifiers

Product name: alpha-Methylene-gamma-butyrolactone
Product Code: GEO-03235 CAS-No. : 547-65-9

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

Identified uses : Laboratory chemicals, Manufacture of substances

Company Identification: Georganics Ltd., Koreničova 1, 811 03 Bratislava, Slovak Republic

Phone Number: +421 33 6403132, Fax Number: +421 33 6403133, E-mail address: georganics@georganics.sk

Emergency Number Slovakia: National Toxicological Information Centre Tel: +421-2-54774166, Mob: +421 911 166 066

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226

Skin sensitisation (Category 1), H317

Chronic aquatic toxicity (Category 3), H412

Label elements

Labelling according Regulation (EC) No 1272/2008

GHS pictogram:

H226 - Flammable liquid and vapour.

Signal word:

H317 - May cause an allergic skin reaction.

Warning



H412 - Harmful to aquatic life with long lasting effects.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 - Wear protective gloves.

P370 + P378 - In case of fire: Use dry powder or dry sand to extinguish.

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

Synonyms	Formula	Molecular Weight	Assay (%)	CAS#	EC-No.
3-Methylenedihydro-2(3H)-furanone Tulipane	C5H6O2	98,10 g/mol	95	547-65-9	208-931-6

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
α-Methylene-γ-butyrolactone		
CAS-No. 547-65-9 EC-No. 208-931-6	Flam. Liq. 3; Skin Sens. 1; H226, H317	<= 100 %
2,6-di-tert-Butyl-p-cresol		
CAS-No. 128-37-0 EC-No. 204-881-4	Aquatic Acute 1; Aquatic Chronic 1; H400, H410 M-Factor - Aquatic Acute: 1	>= 1 - < 2,5 %

SECTION 4 - FIRST AID MEASURES

Eyes:	Rinse opened eye for at least 15 minutes under running water. Get medical aid.
Skin:	Instantly wash with water and soap and rinse thoroughly. Get medical aid.
Ingestion:	Get medical aid. Wash mouth out with water.
Inhalation:	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If required, provide artificial respiration.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and airtight goggles.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable extinguishing agents:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
Precautions for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Additional information:	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

Precautions for safe handling:	Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapors/spray.
Conditions for safe storage, including any incompatibilities:	Store in a dry, cool and well ventilated place. Keep container closed when not in use. Recommended storage temperature 2 - 8 °C. Air and moisture sensitive. Light sensitive. Store under inert gas. Storage class (TRGS 510): Flammable liquids. See Section 10 for stability and reactivity information.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:	Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels. Safety shower and eye bath.
Personal Protective Equipment	
Respiratory protection:	Dust respirator, self-contained breathing apparatus (SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Eye protection:	Wear chemical safety glasses.
Hand protection:	Impervious gloves.
Skin and body protection:	Wear appropriate protective work clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid	Flash Point:	37 °C
Color:	Clear faint yellow	Solubility:	Not available
Boiling Point:	86 - 88 °C at 16 hPa - lit.	Molecular Formula:	C5H6O2
Freezing/Melting Point:	Not available	Molecular Weight:	98,10

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures. Contains the following stabiliser(s): BHT (2 %)
Possibility of hazardous reactions:	No special reactivity has been reported.
Incompatible Materials:	Strong oxidizing agents, strong acids, strong bases
Conditions to avoid:	Incompatible products, heat, flames and sparks
Hazardous Decomposition Products:	Carbon oxides

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	IARC = No data available NTP = No data available
Reproductive toxicity:	No data available

SECTION 12 - ECOLOGICAL INFORMATION

Mobility in soil:	No data available
Serious eye damage/irritation:	No data available
Toxicity:	No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product:	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging:	Dispose of as unused product. Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

	IATA	IMDG/IMO	RID/ADR
Shipping Name:	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
Hazard Class:	3	3	3
UN Number:	1993	1993	1993
Packing Group:	III	III	III

SECTION 15 - REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Canadian DSL/NDSL CAS# 547-65-9 is not listed on Canada's DSL or NDSL List.

US Federal TSCA CAS# 547-65-9 is not listed on the TSCA Inventory.

SECTION 16 - OTHER INFORMATION**WARRANTY**

The information contained in the SDS are compiled according to the present knowledge of the manufacturer. It does not represent any guarantee of the properties of the product. SDS shall be used only as a guide. Georganics Ltd. is not liable for damages incurred in the handling or contact with chemicals.