

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifiers

Product name : Carbachol solution

Relevant identified uses of the substance or mixture

For research use only. Not for use in diagnostic procedures.

Details of the supplier of the safety data sheet

Montana Molecular
366 Gallatin Park Drive, Unit A
Bozeman, MT 59715

Emergency telephone

Emergency Phone #. In case of emergency contact CHEMTREC. 24 Hours/day; 7 Days/week

CHEMTREC (USA): 800-424-9300

CHEMTREC (International) +1-703-527-3887

SECTION 2: Hazards identification

Classification of the substance or mixture

The hazards of this mixture have not been investigated.

The information for the component Carbachol (CAS-No 51-83-2) is provided for reference.

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity - oral 2 H300 Fatal if swallowed.

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statements

H300 Fatal if swallowed.

Precautionary statements

P264 Wash thoroughly after handling.

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

P301+P310 If swallowed: Immediately call a poison center/doctor.

P321 Specific treatment (see on this label).
P330 Rinse mouth.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Information pertaining to particular dangers for man and environment:

Classification system:

NFPA ratings (scale 0 - 4)

Health = 4
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 3
Fire = 0
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT:Not applicable.
vPvB:Not applicable.

Classification according to (d)(1)(ii) of § 1910.12000

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard

SECTION 3: Composition/information on ingredients

Mixtures

Chemical name	CAS number	Concentration
Carbachol	51-83-2	0.5% (25 mM)

Non-hazardous ingredients include water.

SECTION 4: First aid measures

Description of first-aid measures

General information:

Immediately remove any clothing soiled by the product.
In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation

In case of unconsciousness place patient stably in side position for transportation.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing media**

Water

Foam

Carbon dioxide (CO₂)

Dry powder

Unsuitable extinguishing media

No information available

Hazardous combustion products

Carbon oxides

Nitrogen oxides

Hydrogen chloride gas

Special protective equipment and precautions for firefighters

Suppress (knock down) gases/vapours/mists with a water spray jet.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: Accidental release measures**Methods and materials for containment and cleaning up**

Isolate area around spill. Put on suitable protective clothing and equipment as specified by site spill control procedures. Absorb the liquid with suitable material and clean affected area with soap and water.

Dispose of spill materials according to the applicable federal, state, or local regulations. Do not let product enter drains.

SECTION 7: Handling and storage

Precautions for safe handling

For precautions see section 2

Conditions for safe storage, including any incompatibilities

Store in accordance with information listed on the product insert

SECTION 8: Exposure controls/personal protection

Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Ingredients with permissible exposure limits

Contains no substances with permissible exposure limits.

Personal protective equipment

Eye/face protection

Safety glasses

Skin protection

Nitrile gloves

Body Protection

Protective clothing

Respiratory protection

Required when dusts are generated. Filter type P3

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Form: liquid
Color	No data available
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	Product is not flammable
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Density	No data available
Relative density	No data available

Solubility	Soluble in water
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	Not applicable
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	Not classified as explosive
Oxidizing properties	none

SECTION 10: Stability and reactivity

Reactivity

No data available

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

Protect from light

Incompatible materials

No data available

Hazardous decomposition products

No dangerous decomposition products known

SECTION 11: Toxicological information

The toxicological effects of this formulation have not been investigated. Toxicological information of the component Catechol, CAS-No 51-83-2 is provided for reference.

Acute toxicity

Skin contact

No data available

Eye contact

No data available

Inhalation

No data available

Ingestion

LD50 Oral - Rat - 40 mg/kg

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

SECTION 12: Ecological information

Aquatic or terrestrial toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

No data available

SECTION 13: Disposal considerations

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

UN/NA Number:

None

UN/NA proper shipping name:

Not applicable

IATA:

This material does not contain any chemical components that exceed threshold (De Minimis) levels.

DOT (US):

This material does not contain any chemical components that exceed threshold (De Minimis) levels.

IMDG:

This material does not contain any chemical components that exceed threshold (De Minimis) levels.

SECTION 15: Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No	Component RQ (lbs)	Calculated product RQ (lbs)
Carbachol	51-83-2	500	10000

SARA 311/312

A substance in the mixture is listed.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know

Carbachol 51-83-2

Pennsylvania Right To Know

Carbachol 51-83-2

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

TSCA

CAS number	Name	TSCA status
51-83-2	Carbachol	Active, no flags

SECTION 16: Other information

Disclaimer

The information is believed to be correct to the best of our knowledge at the date published. The document is designed solely as a guideline. It does not represent any guarantee of the properties of the product. Montana Molecular, LLC and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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