

This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

Revision date 10-May-2023 Revision Number 1

## 1. Identification

Product identifier

Product Name N-Methyl Naltrexone-d3 Bromide

Other means of identification

Product Code(s) TRC-M320352-10MG

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Laboratory use

Restrictions on use Not to be used for human or animal consumption

Details of the supplier of the safety data sheet

#### **Supplier Address**

VHG LGC Standards 276 Abby Road Manchester, NH 03103 UNITED STATES OF AMERICA

Tel:+1 (603) 622-7660 Fax:+1 (603) 622-5180 Email: lgcusa@lgcgroup.com

Web: Igcstandards.com

E-mail sds-request@lgcgroup.com

#### Emergency telephone number

## **Emergency Telephone**

For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970

## 2. Hazard(s) identification

#### Classification

AGHS / EN Page 1/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

### TRC-M320352-10MG - N-Methyl Naltrexone-d3 **Bromide**

Revision date 10-May-2023

Classified according to OSHA.

Acute toxicity - Oral	Category 3
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

#### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

#### Danger

### Hazard statements

Classified according to OSHA.

Toxic if swallowed

Very toxic to aquatic life with long lasting effects



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

No information available.

## 3. Composition/information on ingredients

### Substance

AGHS / EN Page 2/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

#### TRC-M320352-10MG - N-Methyl Naltrexone-d3 **Bromide**

Revision date 10-May-2023

**Formula** C<sub>21</sub>H<sub>23</sub>D<sub>3</sub>BrNO<sub>4</sub>

Chemical name	CAS No	Weight-%	Trade secret
N-Methyl Naltrexone-d3 Bromide	-	100	*

## 4. First-aid measures

### **Description of first aid measures**

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Eye contact

Consult a physician.

Skin contact Wash skin with soap and water.

Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious Ingestion

person. Get medical attention.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Note to physicians

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

AGHS / EN Page 3 / 12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

TRC-M320352-10MG - N-Methyl Naltrexone-d3

Revision date 10-May-2023

**Bromide** 

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

## 7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Please refer to the manufacturer's certificate for specific storage and transport temperature

conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children.

## 8. Exposure controls/personal protection

Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

**Biological occupational exposure limits** 

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

AGHS / EN Page 4/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

TRC-M320352-10MG - N-Methyl Naltrexone-d3

**Bromide** 

Revision date 10-May-2023

**Appropriate engineering controls** 

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Hand protection The protective gloves to be used must comply with the specifications of EC Directive

89/686/EEC and the related standard EN374.

**Skin and body protection**Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this

product. Wash hands before breaks and after work. Wear suitable gloves and eye/face

protection.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid Appearance Solid

Colorwhite; to; off-whiteOdorNo information availableOdor thresholdNo information available

Property Values Remarks • Method

No data available None known Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known Flash point No data available None known **Evaporation rate** No data available None known None known **Flammability** No data available Flammability Limit in Air None known

ammability Limit in Air No
Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableNone knownRelative vapor densityNo data availableNone knownRelative densityNo data availableNone known

AGHS / EN Page 5/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

## TRC-M320352-10MG - N-Methyl Naltrexone-d3

Revision date 10-May-2023

**Bromide** 

Water solubility No data available None known None known No data available Solubility(ies) None known No data available **Partition coefficient Autoignition temperature** No data available None known **Decomposition temperature** None known Kinematic viscosity No data available None known Dynamic viscosity No data available None known

Other information

Explosive properties
Oxidizing properties
No information available
No information available
No information available

Molecular weight 439.36

VOC content
Liquid Density
No information available
No information available
Bulk density
No information available

## 10. Stability and reactivity

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

## Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on

components).

Symptoms related to the physical, chemical and toxicological characteristics

AGHS / EN Page 6/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

TRC-M320352-10MG - N-Methyl Naltrexone-d3

Revision date 10-May-2023

**Bromide** 

**Symptoms** No information available.

**Acute toxicity** 

**Numerical measures of toxicity** 

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

Other adverse effects No information available.

Interactive effects No information available.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

AGHS / EN Page 7/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

TRC-M320352-10MG - N-Methyl Naltrexone-d3

Revision date 10-May-2023

**Bromide** 

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

Other adverse effects No information available.

## 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with

**products** environmental legislation.

Contaminated packaging Do not reuse empty containers.

## 14. Transport information

DOT

UN number or ID number UN2811

Extended proper shipping name Toxic solids, organic, n.o.s. (N-Methyl Naltrexone-d3 Bromide)

Transport hazard class(es) 6.1
Packing group III

Special Provisions IB8, IP3, T1, TP33

DOT Marine Pollutant

Marine pollutant N-Methyl Naltrexone-d3 Bromide

Description UN2811, Toxic solids, organic, n.o.s. (N-Methyl Naltrexone-d3 Bromide), 6.1, III, Marine

pollutant

154

**Emergency Response Guide** 

Number

TDG

UN number or ID number UN2811

**UN proper shipping name** Toxic solid, organic, n.o.s. (N-Methyl Naltrexone-d3 Bromide)

Transport hazard class(es) 6.1
Packing group III
Special Provisions 16
Marine pollutant P

Description UN2811, Toxic solid, organic, n.o.s. (N-Methyl Naltrexone-d3 Bromide), 6.1, III

**MEX** 

UN number or ID number UN2811

AGHS / EN Page 8/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

## TRC-M320352-10MG - N-Methyl Naltrexone-d3

Revision date 10-May-2023

**Bromide** 

**UN proper shipping name** Toxic solid, organic, n.o.s. (N-Methyl Naltrexone-d3 Bromide)

Transport hazard class(es) 6.1
Packing group III

Technical Name N-Methyl Naltrexone-d3 Bromide

Description UN2811, Toxic solid, organic, n.o.s. (N-Methyl Naltrexone-d3 Bromide), 6.1, III

Special Provisions 223, 274

<u>IATA</u>

UN number or ID number UN2811

**UN proper shipping name** Toxic solid, organic, n.o.s. (N-Methyl Naltrexone-d3 Bromide)

Transport hazard class(es) 6.1
Packing group

Technical Name N-Methyl Naltrexone-d3 Bromide

Description UN2811, Toxic solid, organic, n.o.s. (N-Methyl Naltrexone-d3 Bromide), 6.1, III

**Special Provisions** A3, A5 **ERG Code** 6L

<u>IMDG</u> Not regulated

UN number or ID number UN2811

**UN proper shipping name** Toxic solid, organic, n.o.s. (N-Methyl Naltrexone-d3 Bromide)

**Description** UN2811, Toxic solid, organic, n.o.s., 6.1, III, Marine pollutant

## 15. Regulatory information

#### **International Inventories**

TSCA Complies under research and development exemption or is regulated by a different

government agency.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
N-Methyl Naltrexone-d3 Bromide	-	-	-

<sup>\*</sup>Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSLContact supplier for inventory compliance status.EINECS/ELINCSContact supplier for inventory compliance status.ENCSContact supplier for inventory compliance status.IECSCContact supplier for inventory compliance status.KECLContact supplier for inventory compliance status.

AGHS / EN Page 9/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

# TRC-M320352-10MG - N-Methyl Naltrexone-d3

Revision date 10-May-2023

**Bromide** 

**PICCS** 

AIIC

Contact supplier for inventory compliance status. Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

#### U.S. EPA Label Information

#### EPA Pesticide Registration Number Not applicable

AGHS / EN Page 10/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

TRC-M320352-10MG - N-Methyl Naltrexone-d3

Revision date 10-May-2023

**Bromide** 

## 16. Other information

NFPA Health hazards 0 Flammability 0 Instability 0 Special hazards - Health hazards 0 Flammability 0 Physical hazards 0 Personal protection X

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 10-May-2023

**Revision Note**No information available.

**Disclaimer** 

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

AGHS / EN Page 11/12



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

TRC-M320352-10MG - N-Methyl Naltrexone-d3 Bromide

Revision date 10-May-2023

**End of Safety Data Sheet** 

AGHS / EN Page 12/12