

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME DEXTROMETHORPHAN HYDROBROMIDE, USP

PRODUCT CODE 0355

SUPPLIER MEDISCA Inc.

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EMERGENCY PHONE CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300

NSW Poisons Information Centre: 131 126

National Chemical Emergency Centre 44(0)1235239670

RECOMMENDED USES Manufacturing and Compounding

RESTRICTIONS ON USE Not applicable

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Acute Toxicity - Oral (Category 4)

Eye Irritation (Category 2B)

Specific Target Organ Toxicity - Single Exposure (Category 3) - respiratory tract irritation

Specific Target Organ Toxicity - Single Exposure (Category 3) - narcotic effects

Chronic Aquatic Toxicity (Category 2)

PICTOGRAM



SIGNAL WORD

HAZARD STATEMENT(S)

Warning

Harmful if swallowed.

Causes eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL

EFFECTS

Last Revision: 01/2023

Not Applicable.



PRECAUTIONARY STATEMENT(S) Prevention Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Do not touch eyes. Avoid breathing dust, fume, gas, mist, vapors and spray.

Use only outdoors or in a well-ventilated area

Avoid release to the environment.

Response IF SWALLOWED: Immediately call a poison center. Get medical help.

Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical help. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison

center or doctor if Get medical help if you feel unwell

COLLECT SPILLAGE.

Storage Store in a well ventilated place. Keep container tightly closed.

Store locked up.

Disposal Dispose of contents and/or container in accordance with local regulations.

HMIS CLASSIFICATION Health Hazard 2 Flammability 0

Reactivity 0 Personal Protection E

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME Morphinan, 3-methoxy-17-methyl-, (9alpha,13alpha,14alpha)-, hydrobromide, monohydrate

BOTANICAL NAME Not applicable

SYNONYM D-Methorphan hydrobromide monohydrate

 CHEMICAL FORMULA
 C18H25NO · HBr · H2O

 CHEMICAL FAMILY
 Morphinan derivative

 CAS NUMBER
 6700-34-1 (monohydrate)

ALTERNATE CAS NUMBER Not applicable
MOLECULAR WEIGHT 370.3282

COMPOSITION

CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT
DEXTROMETHORPHAN	6700-34-1	629-741-3	100
HYDROBROMIDE			

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT
Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek

medical aid.

IN CASE OF SKIN CONTACT

Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

IF INHALED Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a

physician

MEDICAL ATTENTION AND SPECIAL

TREATMENT

Last Revision: 01/2023

Get emergency medical help.



SYMPTOMS CAUSED BY EXPOSURE

Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM

THE CHEMICAL

Not applicable

FLAMMABLE PROPERTIES

May be combustible at high temperature

HAZARDOUS COMBUSTION PRODUCTS

Under fire conditions, hazardous fumes will be present.

SUITABLE & UNSUITABLE EXTINGUISHING MEDIA

Small fire: dry chemical, CO₂ or water spray. Large fire: dry chemical, CO₂, alcohol resistant foam or water

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

spray. Do not get water inside containers.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

METHODS & MATERIAL FOR CONTAINMENT

On land, sweep or shovel into suitable containers. Minimize generation of dust.

CLEANUP PROCEDURE

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

CONDITIONS FOR SAFE STORAGE

Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

STORAGE CONDITIONS

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Store in original container, tightly sealed, protected from direct sunlight and moisture.

Short term excursions, temperature excursions as experienced during shipping and warehousing, up to 40 °C are acceptable.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION



Chemical Name: DEXTROMETHORPHAN HYDROBROMIDE CAS #: 6700-34-1

	Country	Country Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m³	ppm	mg/m³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	N/A	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

N/L = Not listed; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINESConsult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable

fraction: 5 mg/m3

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. **Thermal Hazards:** For products representing a

POINT

thermal hazard, appropriate Personal Protective Equipment should be used.

SPECIFIC ENGINEERING CONTROLS Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

BIOLOGICAL MONITORING Not available
CONTROL BANDING Not available

NOTES USP: Industrial: TWA: Industrial: 10 mg/m³

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Solid

DESCRIPTION Practically white crystals or crystalline powder, having a faint odor. Slightly hygroscopic.

SOLUBILITY Sparingly soluble in water; freely soluble in alcohol and in chloroform; insoluble in ether.

ODOR Faint odor

(OCTANOL-WATER)

FLAMMABILITY May be combustible at high temperature

AUTO-IGNITION BOILING POINT Not available **DECOMPOSITION** (122 - 124)°C, Not available **TEMPERATURE TEMPERATURE** (251.6-255.2)°F **EVAPORATION RATE** Not available **EXPLOSIVE LIMIT** Not available **FLASH POINT** Not available (122 - 124)°C, 1.59 (20°C) LOWER FLAMMABLE/ Not available MELTING/FREEZING

EXPLOSIVE LIMIT(S)

(251.6-255.2)°F

(decomposes)



PARTICLE Not available OXIDIZING PROPERTY Not available pН 5.2 - 6.5 (1%) **CHARACTERISTICS RELATIVE DENSITY** Not available Not available UPPER FLAMMABLE/ SPECIFIC GRAVITY Not available **EXPLOSIVE LIMIT(S)** (WATER = 1)VAPOR DENSITY Not available VAPOR PRESSURE Not available VISCOSITY Not available (AIR = 1)

The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY Not established

CHEMICAL STABILITY Stable under recommended storage conditions

INCOMPATIBLE MATERIALS Strong oxidants, alkalis.

HAZARDOUS DECOMPOSITION

PRODUCTS

Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur

HAZARDOUS POLYMERIZATION Will not occur

POSSIBLITY OF HAZARDOUS Not established

REACTION

CONDITIONS TO AVOID Moisture, sunlight and extreme temperatures

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Oral: Rat: LD50: (mg/kg): 350 (anhydrous)

Dermal: Rabbit: LD50: (mg/kg): Not available

Inhalation: Rat: LC50: (mg/L/4hr): Not available

SKIN CORROSION/IRRITATIONBased on available data, the classification criteria are not met.

Local effects. Skin irritancy test.Result: Slightly irritant. Species: Rabbit

SERIOUS EYE DAMAGE/EYE Causes eye irritation.

IRRITATION

Local effects
Eye irritancy test
Result: Slightly irritant.
Species: Rabbit

RESPIRATORY SENSITIZATIONDue to lack of data the classification is not possible.

SKIN SENSITIZATIONDue to lack of data the classification is not possible.

GERM CELL MUTAGENICITY Due to lack of data the classification is not possible.

CARCINOGENICITY OSHA DEXTROMETHORPHAN HYDROBROMIDE is not listed.

NTP DEXTROMETHORPHAN HYDROBROMIDE is not listed.

IARC DEXTROMETHORPHAN HYDROBROMIDE is not evaluated.

California This product does not contain any chemicals known to the State of California to cause

Proposition 65 cancer, birth defects, or any other reproductive harm.



ADDITIONAL CARCINOGENICITY

INFORMATION

Due to lack of data the classification is not possible.

REPRODUCTIVE TOXICITY

Based on available data, the classification criteria are not met.

Reproductivity

50 mg/kg/day Reproduction and development studies in rats and rabbits, administered orally during gestation.

Result: No teratogenicity noted.

Retrospective studies

Result: No association between exposure to this material during pregnancy and an increased incidence of birth

defects was seen. Species: Human

SPECIFIC TARGET ORGAN TOXICITY -

SINGLE EXPOSURE

Respiratory tract irritation. Narcotic effects.

SPECIFIC TARGET ORGAN TOXICITY -

REPEATED EXPOSURE

Based on available data, the classification criteria are not met.

ASPIRATION HAZARDS

Based on available data, the classification criteria are not met.

SIGNS AND SYMPTOMS OF

EXPOSURE

ROUTES OF EXPOSURE: Ingestion, eyes, inhalation, skin

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Dizziness. Drowsiness. Headache. Unsteadiness. Seizures. Restlessness. Confusion. Hallucinations. Euphoria. Difficulty breathing. Pinpoint pupils. Uncontrolled eye movements. Nausea. Vomiting. Constipation. Urinary

retention

DELAYED HEALTH EFFECT FROM EXPOSURE:

Narcosis. Psychosis. Cognitive impairment. Dependence. Respiratory depression

Cross sensitivity:

Persons sensitive to levorphanol may also be sensitive to this material.

Medical conditions aggravated by exposure:

Active alcoholism. Asthma. Respiratory disorders. Recent or concurrent use of monoamine oxidase (MAO)

inhibitors. Recent or concurrent use of selective serotonin reuptake inhibitors (SSRIs).

POTENTIAL HEALTH EFFECTS

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion Harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation

Eyes Causes eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY EC50: 48 Hr: Crustacea: Daphnia magna: (mg/L): 14.5

LC50: 96 Hr: Fish: (mg/L): 4.9 EC50: 72 Hr: Algae: (mg/L): 2.4

PERSISTENCE AND DEGRADABILITY

Not inherently biodegradable.

Bromide ion may be introduced to the environment after the dissociation of various salts and complexes or

degradation of organobromide compounds.

BIOACCUMULATIVE POTENTIAL LogPow: 1.59 (20°C)

MOBILITY IN SOIL Sparingly soluble in water. 15 g/L (20°C)

OTHER ADVERSE EFFECTS Not available

This product is not intended to be released into the environment



NOTES

Bromides may also affect the growth of micro-organisms and have been used for this purpose in industry. Bromides in drinking water are occasionally subject to disinfection processes involving ozone of chlorine. Bromide may be oxidized to produce hypobromous acid which in turn may react with natural organic matter to form brominated compounds. The formation of bromoform has been well documented, as has the formation of bromoacetic acid, bromopicrin, cyanogen and bromoacetone. Bromates may also be formed following ozonation or chlorination if pH is relatively high. Bromates may be animal carcinogens.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN NUMBER 3077
CLASS 9
PACKING GROUP III

<u>AUSTRALIA</u>

HAZCHEM 2Z

<u>EU</u>

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE

IBC CODE

Not Listed

ENVIRONMENTAL HAZARDS Not available SPECIAL SHIPPING INFORMATION Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355		Right-to-know Pennsylvania New Jersey Massachusetts			California Prop 65
DEXTROMETHORPHAN	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L
HYDROBROMIDE 6700-34-1								

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
DEXTROMETHORPHAN	N/L	Listed as Schedule	N/L	Listed	N/L	N/L
HYDROBROMIDE 6700-34-1		4				

N/L = Not Listed

Last Revision: 01/2023



EU REGULATIONS

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
DEXTROMETHORPHAN HYDROBROMIDE 6700-34-1	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL

Not applicable

AGREEMENT

SECTION 16: OTHER INFORMATION

REFERENCES

ABBREVIATIONS AND ACRONYMS

Available upon request

ACGIH - American Conference of Governmental Industrial Hygienists; AIHA WEEL - American Industrial Hygiene Association Workplace Environment Exposure Levels; CAESAR - Computer Assisted Evaluation of industrial chemical Substances According to Regulations; CAS - Chemical Abstract Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; EC50 - Effective Concentration, 50%; EPA - Environmental Protection Agency; GHS - Global Harmonized System; HMIS - Hazardous Materials Information System; HSE - Health and Safety Executive; HSIS - Hazardous Substances Information System; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IRFMN - Ready Biodegradability Model; ISS - Instituto Superiore Sanità; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; MSHA - Mine Safety and Health Administration; NIOSH - National Institute for Occupational Safety and Health; NTP - National Toxicology Program; OSHA PEL - Occupational Safety & Health Administration Permissible Exposure Limits; QSAR - Quantitative Structure-activity relationship; REL - Recommended Exposure Limit; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; TLV - Threshold Limit Value; TWA - Time Weighted Average; WHMIS - Workplace Hazardous Materials Information System

LAST REVISION

SUPERSEDES

01/2023

05/2021

For a list of changes to the SDS since the last version, please communicate with MEDISCA at www.medisca.com

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

SUPPLEMENTARY INFORMATION

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.