

### **SECTION 1: PRODUCT IDENTIFICATION**

PRODUCT NAME LIDOCAINE HYDROCHLORIDE, USP

PRODUCT CODE 0082

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 3)

Sensitization - Skin (Category 1)

Sensitization - Respiratory (Category 1)

Eye Irritation (Category 2B)

Acute Aquatic Toxicity (Category 2)

**PICTOGRAM** 





SIGNAL WORD

HAZARD STATEMENT(S) Toxic if swallowed.

Toxic to aquatic life.

Causes eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

The substance is a powerful local anaesthetic and should be considered as potentially harmful through

exposure by dust inhalation and by ingestion.

ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS Not Applicable.



PRECAUTIONARY STATEMENT(S) Prevention Wash hands thoroughly after handling. Do not touch eyes.

Do not eat, drink or smoke when using this product. Avoid breathing dust, fume, gas, mist, vapors, spray. In case of inadequate ventilation wear respiratory protection.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

Avoid release to the environment

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

immediately. 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: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, get medical help immediately call a poison

center or medical professional.

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical help

advice/attention. Take off contaminated clothing and wash it before reuse.

**COLLECT SPILLAGE** 

Storage Store locked up.

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

HMIS CLASSIFICATION Health Hazard 2 Flammability 0

Reactivity 0 Personal Protection G

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME

2-(Diethylamino)-N-(2,6-dimethylphenyl)acetamide monohydrochloride monohydrate

BOTANICAL NAME Not applicable

SYNONYM Lignocaine Hydrochloride (monohydrate)

CHEMICAL FORMULA C14H22N2O HCI H2O

CHEMICAL FAMILY Aniline derivative; amino amide

CAS NUMBER 6108-05-0

ALTERNATE CAS NUMBER Not applicable

MOLECULAR WEIGHT 288.8165

COMPOSITION

CHEMICAL NAME CAS NUMBER EC NUMBER % BY WEIGHT
LIDOCAINE HCI (monohydrate) 6108-05-0 612-079-4 100

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

Get emergency medical help.

SYMPTOMS CAUSED BY EXPOSURE

May cause irritation and numbness.

### SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM

THE CHEMICAL

FLAMMABLE PROPERTIES

HAZARDOUS COMBUSTION PRODUCTS

SUITABLE & UNSUITABLE EXTINGUISHING MEDIA

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

**NOTES** 

Not applicable

This material is assumed to be combustible

Under fire conditions, hazardous fumes will be present.

Small fire: dry chemical, CO<sub>2</sub> or water spray. Large fire: dry chemical, CO<sub>2</sub>, alcohol resistant foam or water spray. Do not get water inside containers.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. As with all fires, evacuate personnel to a safe area.

As with all dry powders, it is advisable to ground mechnical equipment in contact with dry material to dissipate the potential buildup of static electricity.

Dust explosion properties: Minimum ignition energy (MIE) - dust cloud: 10 - 30 mJ

### **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

CLEANUP PROCEDURE

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

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

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

Store at controlled room temperature. Controlled room temperature indicates a temperature 20° to 25°C (68° to 77°F); that results in a mean kinetic temperature calculated to be not more than 25°C; and that allows for excursions between 15° and 30°C (59° and 86°F) that are experienced in pharmacies, hospitals, and warehouses. Provided the mean kinetic temperature remains in the allowed range, transient spikes up to 40°C (104°F) are permitted as long as they do not exceed 24 hours.

### SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: LIDOCAINE HCI (monohydrate) CAS #: 6108-05-0

	Country	try Limit value-8 hour		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	Add Country	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 GUIDELINES** Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable

fraction: 5 mg/m3

PERSONAL PROTECTIVE EQUIPMENT

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

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

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 The substance is a powerful local anaesthetic and should be considered as potentially harmful through

exposure by dust inhalation and by ingestion.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Solid

DESCRIPTION White, odorless, crystalline powder.

SOLUBILITY Very soluble in water and in alcohol; soluble in chloroform; insoluble in ether.

ODOR Odorless or characteristic odor

**FLAMMABILITY** This material is assumed to be combustible



AUTO-IGNITION TEMPERATURE	(500 - 550)°C, (932-1022)°F	BOILING POINT	Not available	DECOMPOSITION TEMPERATURE	Not available
EVAPORATION RATE	Not available	EXPLOSIVE LIMIT	Not available	FLASH POINT	Not available
log P (OCTANOL-WATER)	1.39	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	MELTING/FREEZING POINT	(74-79)°C, (165.2-174.2)°F
PARTICLE CHARACTERISTICS	Not available	OXIDIZING PROPERTY	Not available	pH	4 - 5.5 (0.5%)
RELATIVE DENSITY (WATER = 1)	Not available	SPECIFIC GRAVITY	Not available	UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available
VAPOR DENSITY (AIR = 1)	Not available	VAPOR PRESSURE	< 0.0000001 kPa (25°C)	VISCOSITY	Not available

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 oxidizing agents and strong mineral acids.

When heated to decomposition, material emits toxic fumes of NO|x. Emits toxic fumes under fire conditions.

Will not occur

HAZARDOUS DECOMPOSITION HAZARDOUS POLYMERIZATION

**PRODUCTS** 

POSSIBLITY OF HAZARDOUS

REACTION

Not established

**CONDITIONS TO AVOID** 

Moisture, Sunlight and extreme temperatures

### **SECTION 11: TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY** Oral: Rat: LD50: (mg/kg): 159 - 324

Dermal: Rabbit LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L/4hr): Not available

SKIN CORROSION/IRRITATION Due to lack of data, the classification is not possible.

SERIOUS EYE DAMAGE/EYE

Last Revision: 03/2023

**IRRITATION** 

Causes eye irritation.

RESPIRATORY SENSITIZATION Suspected sensitiser



SKIN SENSITIZATION Skin sensitization: Local anaesthetics may provoke types I and IV hypersensitivity reactions. Type I reactions

(e.g. anaphylaxis) to local anaesthetics are generally rare. Nevertheless, severe or fatal reactions have been

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

Suspected skin sensitiser: CAESAR skin sensitisation model in VEGA (Q)SAR platform predicts that the

chemical is Sensitizer (moderate reliability)

**GERM CELL MUTAGENICITY** Based on available data, the classification criteria are not met.

Suspected mutagen: The Toolbox profiler 'Protein binding alerts for Chromosomal aberration by OASIS v1.1'

gives an alert for mutagenicity. Ames test; Result: Negative.

Chromosome aberration; Result: Negative. Mouse: Micronucleus test; Result: Negative.

CARCINOGENICITY **OSHA** LIDOCAINE HYDROCHLORIDE is not listed.

> NTP LIDOCAINE HYDROCHLORIDE is not listed. LIDOCAINE HYDROCHLORIDE is not evaluated. **IARC**

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

REPRODUCTIVE TOXICITY

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

Metabolites of lidocaine have been shown to be carcinogenic in laboratory animals.

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

Suspected toxic for reproduction: The Toolbox profiler 'DART scheme v.1.0' gives an alert for toxicity to

reproduction

Serious adverse effects of epidural anaesthesia are rare but lidocaine may have transient effects on the

neonatal auditory system.

No adverse effects have been seen in breastfed infants whose mothers were receiving lidocaine, and the American Academy of Pediatrics considers that it is therefore usually compatible with breast feeding. Rat: 30 mg/kg Reproductivity / developmental, No effect on fertility or reproductive performance.

Rabbit: 5 mg/kg Reproductivity / developmental, No harm to fetus; Species: Rabbit Rat: 72 mg/kg/day Reproductivity / developmental, No adverse developmental effects.

SPECIFIC TARGET ORGAN TOXICITY -

SINGLE EXPOSURE

SPECIFIC TARGET ORGAN TOXICITY -

REPEATED EXPOSURE

**ASPIRATION HAZARDS** 

SIGNS AND SYMPTOMS OF

**EXPOSURE** 

Due to lack of data, the classification is not possible.

Due to lack of data, the classification is not possible.

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

ROUTES OF EXPOSURE:

Oral, Dermal, Inhalation, Eye contact

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Not available

DELAYED HEALTH EFFECT FROM EXPOSURE:

Not available

The substance is a powerful local anaesthetic and should be considered as potentially harmful through exposure by dust inhalation and by ingestion.

Symptoms related to the physical, chemical, and toxicological characteristics:

Local anesthetics: Headache. Numbness. Neck or back pain. Chest pain. Change in vision. Slurred speech. Dizziness. Drowsiness. Weakness. Feeling hot or cold. Ringing in ears. Anxiety. Nervousness. Excitement. Confusion. Difficulty in breathing. Gastrointestinal disturbances.

Cross Sensitivity:

Persons sensitive to other amide-type anesthetics, flecainide or tocainide may be sensitive to this material also.

POTENTIAL HEALTH EFFECTS Inhalation

Harmful if inhaled. May cause respiratory tract irritation. Readily absorbed from mucous

membranes. May cause allergic reaction.

Toxic if swallowed. Readily absorbed from the gastrointestinal tract. May cause allergic Ingestion



Skin Harmful if absorbed through skin. Causes skin irritation. May cause allergic reaction. May

cause erythema or pigmentation. Readily absorbed through damaged skin

Eyes Causes eye irritation.

### **SECTION 12: ECOLOGICAL INFORMATION**

ECOTOXICITY EC50: 48 Hr: Crustacea: Daphnia magna: (mg/L): 5.4\*

LC50: 96 Hr: Fish: (mg/L): 75.44\*\*

EC50: 96 Hr: Green Algae: (mg/L): 3.59\*\*

PERSISTENCE AND DEGRADABILITY Suspected persistent in the environment: The Danish QSAR database contains information indicating that the

substance is predicted as non readily biodegradable

BIOACCUMULATIVE POTENTIAL Low potential for bioccumulation: LogPow:1.39

MOBILITY IN SOIL Very soluble in water

OTHER ADVERSE EFFECTS Not available

This product is not intended to be released into the environment

NOTES \*DEMETRA Daphnia Magna toxicity model in VEGA (Q)SAR platform prediction (good reliability)

\*\*Danish QSAR database

### **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 Not dangerous good UN NUMBER Not applicable

CLASS Not applicable

PACKING GROUP Not applicable

AUSTRALIA

HAZCHEM Not applicable

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 CF Appendix A	FR Part 355 Appendix B	Right-to-know Pennsylvania New Jersey Massachusetts			California Prop 65
	Fait 302.4	Pail 3/2.00						
LIDOCAINE HCI, 6108-05-0	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L

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
LIDOCAINE HCI, 6108-05-0	N/L	Listed as Schedule 4*	N/L	Listed*	N/L	N/L

N/L = Not Listed

#### **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
LIDOCAINE HCI, 6108-05-0	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** 

NOTES \*Listed as Lidocaine base

### **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
 03/2023

 SUPERSEDES
 05/2021

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



**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.