

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 2/13/2018 Revision date: 7/5/2023 Supersedes version of: 12/5/2022 Version: 15.0

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

1.1. Product identifier		
Product form Trade name Chemical name IUPAC name EC-No. CAS-No. Product code Type of product Formula Synonyms	 Substance LIDOCAINE HYDROCHLORIDE MONOHIDRATE Acetamide, 2-(diethylamino)-N-(2,6-dimethylphenyl) 2-(Diethylamino)-N-(2,6-dimethylphenyl)acetamide hydrochloride monohydrate 612-079-4 6108-05-0 74850 Active Ingredient for Medicinal / Pharmaceutical Use C14H22N2O-HCI.H2O 2', 6' -acetoxylide, 2-(diethylamino)-monohydrochloride monohydrate; 2-(diethyl / amino)-N- (2,6-dimethylphenyl)-monohydrochloride monohydrate; xylocaine hydrochoride monohydrate; Lignocaine hydrochloride monohydrate 	
Other means of identification	: SMILES: CCN(CC)CC(=O)NC1=C(C)C=CC=C1C.O.CI	
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against	
1.2.1. Relevant identified uses		
Main use category Industrial/Professional use spec	 API,Industrial use,Medicinal use Active Ingredient for Medicinal / Pharmaceutical Use For professional use only Industrial 	
Use of the substance/mixture Function or use category	 Local anaesthetic, cardiac depressant, anti-arrhythmic Pharmaceuticals 	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the safety data sheet		
Head office MOEHS IBÉRICA, S.L. Roma, 8 - P.I. Cova Solera 08191 Rubi Spain	Manufacturer MOEHS CATALANA, S.L. Cesar Martinell i Brunet, 12 A P.I. Rubi Sud 08191 Rubi Spain	
T +34 93 586 05 20 - F +34 93 699 8350	T +34 93 586 05 20 - F +34 93 699 8350	

hse@moehs.es - www.moehs.com

Manufacturer

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hse@moehs.es - www.moehs.com

1.4. Emergency telephone number

Emergency number

: +34 93 586 05 20 (9:00 - 17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 Full text of H- and EUH-statements: see section 16 H302

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Adverse physicochemical, human health and environmental effects

Harmful if swallowed.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272	/2008 [CLP]
Hazard pictograms (CLP)	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H302 - Harmful if swallowed.
Precautionary statements (CLP)	 P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P301+P312 - IF SWALLOWED: Call a POISON CENTER if you feel unwell. P330 - Rinse mouth. P501 - Dispose of contents/container to a hazardous or special waste collection point. P280 - Wear eye protection, protective gloves, face protection, protective clothing. P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
2.3. Other hazards	
Other hazards which do not result in classification	: Dust may form explosive mixture in air.

vPvB: not relevant - no registration required

SECTION 3: Composition/information on ingredients		
Mono-constituent		
Product identifier	%	
CAS-No.: 6108-05-0 EC-No.: 612-079-4	100	
	Mono-constituent Product identifier CAS-No.: 6108-05-0	

3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash with plenty of water/ Take off contaminated clothing and wash it before reuse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.
4.2. Most important symptoms and effect	cts, both acute and delayed
Symptoms/effects	: If you feel unwell, seek medical advice.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Possible cutaneous absorption.
Symptoms/effects after eye contact	: May cause slight irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.

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4.3. Indication of any immediate medical attention and special treatment needed

Never give anything by mouth to an unconscious person.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media Unsuitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.Do not use a heavy water stream.		
5.2. Special hazards arising from the substance or mixture			
Hazardous decomposition products in case of fire	: Thermal decomposition generates : Carbon dioxide. Carbon monoxide. Nitrogen oxides. fume. Toxic fumes may be released.		
5.3. Advice for firefighters			
Precautionary measures fire	: Keep away from combustible materials. Minimize generation of dust which may be combustible. Stop leak if safe to do so.		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.		

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipm	nent and emergency procedures	
General measures	: No open flames. No smoking. No flames, no sparks. Eliminate all sources of ignition.	
6.1.1. For non-emergency personnel		
Emergency procedures	 Breathing equipment. Evacuate unnecessary personnel. Avoid breathing dust, mist, spray. Dust formation: dust mask. 	
6.1.2. For emergency responders		
	 Use personal protective equipment as required. Dust/aerosol mask. Safety glasses. Protective gloves. Equip cleanup crew with proper protection. Shovel or sweep up and put in a closed container for disposal. Stop leak if safe to do so. 	
6.2. Environmental precautions	Ventilate area.	
	norities if liquid enters sewers or public waters. Avoid release to the environment.	

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up Other information	: On land, sweep or shovel into suitable containers. Minimise generation of dust.: Dispose of materials or solid residues at an authorized site.	

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid dust formation. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not handle until all safety precautions have been read and understood.
Hygiene measures	: Do not eat, drink or smoke when using this product. Separate working clothes from town clothes. Launder separately.

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Storage conditions	: Store at room temperature. Keep only in the original container in a cool, well ventilated place away from : Oxidizing agent, Heat sources, Direct sunlight. Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
Storage area	: Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)

Pharmaceuticals. Active Ingredient for Medicinal/Pharmaceutical Use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

Control banding

: MOEHS occupational exposure band: 2 (0.1 - 1 mg/m3)

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Local exhaust or breathing protection. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. Safety glasses. Gloves. Dust/aerosol mask.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

Eye protection		
Туре	Field of application	Standard
Safety glasses	Dust, Fine dust	EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

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Skin and body protection	
Туре	Standard
Disposable gowns, Reusable gowns, Tyvek® Gown/Coveralls	EN 13034, EN 1149-1

Hand protection:

Wear protective gloves.

Hand protection		
Туре	Material	Standard
Disposable gloves	Natural rubber, Polyvinylchloride (PVC), Latex, Butyl rubber, Neoprene rubber (HNBR), Fluoroelastomer (FKM)	EN 374-2

Other skin protection Materials for protective clothing		
Condition	Material	Standard
Good resistance:	Synthetic material, Tyvek®, Polyethylene	EN 13034, EN ISO 13982-1

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

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Poc	niratory	protection
IVC2	pirator y	protection

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Device	Filter type	Condition	Standard
Dust mask	Туре РЗ	Dust protection	EN 143

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: white.
Appearance	: Dust.
Molecular mass	: 288.8 g/mol
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: 77 °C
Freezing point	: Not available
Boiling point	: 351 760 mmHg
Flammability	: Dust could form explosive mixtures with air
Explosive limits	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: 179 °C (predicted by ACD/LABS)

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Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
рН	: Not available
pH solution	: 4 – 5.5 (5 % aquous solution)
Viscosity, kinematic	: Not applicable
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: 2.1 [Lidocaine Base value; Experimental According ALOGPS]
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
Particle specific surface area	: Not available
Particle dustiness	: Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Additional information

: Minimum ignition energy : 40-50 mJ. Dust Cloud minimum Flammability Temperature : 520 °C. Layer Minimum flammability Temperature : 400 °C. Explosivity Pmax : 7.7 bar-g. Explosion Severity Factor Kmax (bar.m/s) : 225. Explosion Class : 2

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

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SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Harmful if swallowed. Not classified Not classified 	
LIDOCAINE HYDROCHLORIDE MONOHIDR	ATE (6108-05-0)	
LD50 oral rat	317 mg/kg	
LD50, acute, intraperitoneal, rat	133 mg/kg	
LD50, acute, intraperitoneal, mouse	119 mg/kg	
LD50, subcutaneous, rat	570 mg/kg	
LD50, subcutaneous, mouse	285 mg/kg	
LD50, oral, mouse	292 mg/kg	
LD50, intravenous, rat	25 mg/kg	
LD50, intravenous, mouse	20 mg/kg	
Skin corrosion/irritation Additional information Serious eye damage/irritation Additional information Respiratory or skin sensitisation Additional information Germ cell mutagenicity Additional information Carcinogenicity Additional information Reproductive toxicity Additional information STOT-single exposure Additional information STOT-repeated exposure Additional information	 Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Bacterial Mutagenicity (AMES TEST), Salmonella (Cell type) : Negative. Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met 	
Aspiration hazard	: Not classified	
Additional information	: Based on available data, the classification criteria are not met	
11.2. Information on other hazards		
11.2.1. Endocrine disrupting properties		
Adverse health effects caused by endocrine disrupting properties	: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	
11.2.2. Other information		
Potential adverse human health effects and symptoms Other information	 Harmful if swallowed. Likely routes of exposure: inhalation, skin and eye. 	

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40.4	Toxicity
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Ecology - water Hazardous to the aquatic environment, short-term (acute)

: WGK Class (Germany) : 1

m : Not classified

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Hazardous to the aquatic environment, long-term : Not classified (chronic)		
12.2. Persistence and degradability		
LIDOCAINE HYDROCHLORIDE MONOHIDRAT	E (6108-05-0)	
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
LIDOCAINE HYDROCHLORIDE MONOHIDRAT	E (6108-05-0)	
Bioconcentration factor (BCF REACH)	15.09 [Predicted by BCFWIN v2.17]	
Partition coefficient n-octanol/water (Log Pow)	2.1 [Lidocaine Base value; Experimental According ALOGPS]	
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
LIDOCAINE HYDROCHLORIDE MONOHIDRAT	E (6108-05-0)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.958 [predicted by PCKOCWIN v1.66]	
12.5. Results of PBT and vPvB assessment		
LIDOCAINE HYDROCHLORIDE MONOHIDRATE (6108-05-0)		
vPvB: not relevant – no registration required		
12.6. Endocrine disrupting properties		
Adverse effects on the environment caused by : The substance/mixture has no endocrine disrupting properties. endocrine disrupting properties		
12.7. Other adverse effects		
Additional information :	Avoid release to the environment.	
SECTION 13: Disposal considerations		

13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Industrial waste.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with / ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number		
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable 	
14.2. UN proper shipping name		
Proper Shipping Name (ADR) Proper Shipping Name (IMDG)	Not applicableNot applicable	

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Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID)	 Not applicable Not applicable Not applicable 	
14.3. Transport hazard class(es)		
ADR Transport hazard class(es) (ADR)	: Not applicable	
IMDG Transport hazard class(es) (IMDG)	: Not applicable	
IATA Transport hazard class(es) (IATA)	: Not applicable	
ADN Transport hazard class(es) (ADN)	: Not applicable	
RID Transport hazard class(es) (RID)	: Not applicable	
14.4. Packing group		
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable 	
14.5. Environmental hazards		
Dangerous for the environment Marine pollutant Other information	 No No No supplementary information available 	
14.6. Special precautions for user		
Overland transport Not applicable		
Transport by sea Not applicable		
Air transport Not applicable		
Inland waterway transport Not applicable		
Rail transport Not applicable		
14.7. Maritime transport in bulk according to IMO instruments		
Not applicable		

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

Water hazard class (WGK)	: Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
Switzerland	
Storage class (LK)	: LK 11/13 - Solids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information		
Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
BCF	Bioconcentration factor	

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Abbreviations a	
ATE	Acute Toxicity Estimate
IARC	International Agency for Research on Cancer
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
DMEL	Derived Minimal Effect level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
vPvB	Very Persistent and Very Bioaccumulative
NOAEL	No-Observed Adverse Effect Level
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources

 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
 None.

Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
H302	Harmful if swallowed.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.