

. .

ARTICAINE HYDROCHLORIDE

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 11/26/2009 Revision date: 11/29/2022 Supersedes version of: 6/6/2017 Version: 6.0

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. Type of product Formula Synonyms	 Substance ARTICAINE HYDROCHLORIDE methyl 4-methyl-3-{[2-(propylamino)propanoyl]amino}thiophene-2-carboxylate hydrochloride Methyl 4-methyl-3-[(N-propylalanyl)amino]-2-thiophenecarboxylate hydrochloride (1:1) 245-957-7 23964-57-0 Active Ingredient for Medicinal / Pharmaceutical Use C13H21CIN2O3S 2-thiophenecarboxylic acid, 4-methyl-3-[[1-oxo-2-(propylamino)propyl]amino]-, methyl ester, monohydrochloride; 4-Methyl-3-[[1-oxo-2-(propylamino)propyl]amino]-, methyl ester, acid methyl ester hydrochloride; methyl 4-methyl-3-[(N-propylalanyl)amino]thiophene-2-carboxylate hydrochloride Active Ingredient for Medicinal/Pharmaceutical Use SMILES: CCCNC(C)C(=0)Nc1c(csc1C(=0)OC)C.Cl
	stance or mixture and uses advised against
 1.2.1. Relevant identified uses Main use category Industrial/Professional use spec Use of the substance/mixture Function or use category 1.2.2. Uses advised against No additional information available 	 Industrial use Industrial For professional use only Amide-type local anesthetic. Articaine hydrochloride is used for relief of pain in minor Pharmaceuticals
1.3. Details of the supplier of the safety	data sheet
Supplier MOEHS IBÉRICA, S.L. Roma, 8 - P.I. Cova Solera 08191 Rubi Spain T +34 93 586 05 20 - F +34 93 699 8350 hse@moehs.es - www.moehs.com Manufacturer BENECHIM S.R.L rue René Magritte 163 (North Zoning) B-7860 Lessines Belgium T + 32 68 33 49 13	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 hse@moehs.es - www.moehs.com
1.4. Emergency telephone number	
Emorgonov numbor	· · · 24 02 E96 0E 20 // · · 22(0) 70 245 245

Emergency number

: +34 93 586 05 20 // +32(0) 70 245 245 (9:00 - 17:00)

SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture		
Classification according to Regulation (EC) No. 1272/200	B [CLP]	
Acute toxicity (oral), Category 4	H302	
Skin corrosion/irritation, Category 2	H315	
Serious eye damage/eye irritation, Category 2	H319	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

according to the REACH Regulation (EC) 1907/2006 amo	ended by Regulation (EO) 2	020/6/ 6
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation Hazardous to the aquatic environment – Chronic Hazard, Category 3		H335 H412
Full text of H- and EUH-statements: see section 16		
Adverse physicochemical, human health and e	environmental effects	
No additional information available		
2.2. Label elements		
Labelling according to Regulation (EC) No. 127	72/2008 [CLP]	
Hazard pictograms (CLP)	GHS07	
Signal word (CLP) Hazard statements (CLP)	:Warning :H302 - Harmful if:	swallowed
	H315 - Causes sk H319 - Causes se H335 - May cause	in irritation. rious eye irritation. e respiratory irritation.
Precautionary statements (CLP)	 H335 - May cause respiratory irritation. H412 - Harmful to aquatic life with long lasting effects. P261 - Avoid breathing dust. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear eye protection, face protection, protective gloves, protective clothing. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 - Call doctor if you feel unwell. P330 - Rinse mouth. P332+P313 - If skin irritation occurs: Get medical advice/attention. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. 	

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Substance type	: Mono-constituent	
Name	Product identifier	%
ARTICAINE HYDROCHLORIDE	CAS-No.: 23964-57-0 EC-No.: 245-957-7	100
3.2. Mixtures	·	

Not applicable

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.		
First-aid measures after skin contact	: Wash with plenty of water/ Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.		
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.		
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor if you feel unwell.		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation. Swallowing a small quantity of this material will result in serious health hazard. 		

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

No additional information available

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			
Fire hazard Hazardous decomposition products in case of fire	Dust may form explosive mixture in air.Carbon dioxide. fume. Carbon monoxide. Toxic fumes may be released.		
5.3. Advice for firefighters			
Firefighting instructions Protection during firefighting	 Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Do not enter fire area without proper protective equipment, including respiratory protection. 		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper protection.		
Emergency procedures	: Ventilate area.		
6.2. Environmental precautions			

Prevent entry to sewers and public waters. Notify authorities 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	: On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

before eating, drinking or cess area to prevent in a well-ventilated area. s, forearms and face		
7.2. Conditions for safe storage, including any incompatibilities		
a well-ventilated place. Keep		

7.3. Specific end use(s)

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

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Chemical goggles or safety glasses

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

Hand protection		
Туре	Material	Standard
Disposable gloves	Nitrile rubber (NBR), Natural rubber, Polyvinylchloride (PVC), Polyvinylalcohol (PVA), Butyl rubber	EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

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

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

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	: Local powder.
Molecular mass	: 320.87 g/mol
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: 177 – 178 °C
Freezing point	: Not available
Boiling point	: 340 – 441
Flammability	: Dust could form explosive mixtures with air
Explosive limits	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: 220 – 251
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
рН	: 4.2 - 4.9
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Soluble in water.
	Water: 0.002 – 0.007 mol/l
Partition coefficient n-octanol/water (Log Kow)	: -0.523 – 1.93
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1.18 – 1.25

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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 : 30-40 mJ. Dust Cloud minimum Flammability Temperature : 420 °C. Layer Minimum flammability Temperature : >400°C. Explosion Severity Factor Kmax (bar.m/s) : 225. Explosion Class : St2

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

Stable 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.

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
ARTICAINE HYDROCHLORIDE (23964-57-0))	
LD50 oral rat		978 mg/kg
Skin corrosion/irritation	-	Causes skin irritation. pH: 4.2 – 4.9
Serious eye damage/irritation		Causes serious eye irritation. pH: $4.2 - 4.9$
Respiratory or skin sensitisation Additional information	-	Not classified Based on available data, the classification criteria are not met

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Additional information	: 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	: Harmful if swallowed.

SECTION 12: Ecological information

symptoms

12.1. Toxicity	
Ecology - water : Hazardous to the aquatic environment, short-term : (acute)	Harmful to aquatic life with long lasting effects. Not classified
Hazardous to the aquatic environment, long-term : (chronic)	Harmful to aquatic life with long lasting effects.
ARTICAINE HYDROCHLORIDE (23964-57-0)	
LC50 - Fish [1]	70.7 mg/l
12.2. Persistence and degradability	
ARTICAINE HYDROCHLORIDE (23964-57-0)	
Persistence and degradability	May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
ARTICAINE HYDROCHLORIDE (23964-57-0)	
Partition coefficient n-octanol/water (Log Kow)	-0.523 – 1.93
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Endocrine disrupting properties	
Adverse effects on the environment caused by :	The substance/mixture has no endocrine disrupting properties.

endocrine disrupting properties

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 an	nended by Regulation (EU) 2020/878
12.7. Other adverse effects	
Additional information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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)	: Not applicable
UN-No. (IMDG) UN-No. (IATA)	: Not applicable : Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

Proper Shipping Name (ADN): Not applicableProper Shipping Name (RID): Not applicable

1	4.3. Transport hazard class(es)	

: Not applicable

ADR Transport hazard class(es) (ADR)

IMDG	
Transport hazard class(es) (IMDG)	: Not applicable

ΙΑΤΑ

Transport hazard class(es) (IATA) : Not applicable

ADN Transport hazard class(es) (ADN)

RID

Transport hazard class(es) (RID)

14.4. Packing group	
Packing group (ADR)	: Not applicable

Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)

Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

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

Employment restrictions	 Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)	 WGK 2, Significantly hazardous to water (Classification according to AwSV; ID No. 9533). 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

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling	 The substance is not listed The substance is not listed 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
ATE	Acute Toxicity Estimate
EC50	Median effective concentration
LC50	Median lethal concentration
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
LD50	Median lethal dose
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

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
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

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.