

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Substance
Name : (±)-4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole
CAS No : 86347-14-0
Synonyms : Medetomidine

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Use of the substance/mixture : Anti fouling agent for use in marine paints against hard fouling organisms, in particular barnacles

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

I-TECH AB c/o Astrazeneca
Pepparedsleden 1
431 83 Mölndal - Sweden
T +46 31 788 05 60
info@i-tech.se

1.4. Emergency telephone number

NHS Direct (UK) : 0845 4647

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute Tox. 2 (Oral) H300
Acute Tox. 2 (Inhalation) H330
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

T+; R26
T; R25
N; R50/53

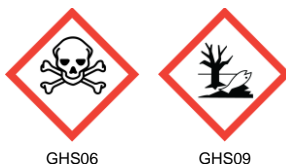
Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

Fatal if inhaled. Fatal if swallowed. Very toxic to aquatic life with long lasting effects.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS06

GHS09

Signal word (CLP) : Danger
Hazard statements (CLP) : H300 - Fatal if swallowed
H330 - Fatal if inhaled
H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray
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
P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician

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P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor/physician

P405 - Store locked up

2.3. Other hazards

Other hazards not contributing to the classification : Strong sedative effect if inhaled or ingested.

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%	Classification according to Directive 67/548/EEC
(±)-4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole (Main constituent)	(CAS No) 86347-14-0	>= 97	T+; R26 T; R25 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(±)-4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole (Main constituent)	(CAS No) 86347-14-0	>= 97	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Inhalation), H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. Provide oxygen and/or ventilation assistance, if needed. Call a doctor immediately, even if there are no immediate symptoms.

First-aid measures after skin contact : Immediately remove contaminated clothing or footwear. Rinse with plenty of water. If case of redness or irritation, call a doctor.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth out with water. Transfer to hospital rapidly.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Information for health personnel : A water solution of the hydrochloride salt derivative of 4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole better known as Medetomidine hydrochloride is used in veterinary medicine as a sedative/analgesic; alpha-2-adrenergic agonist agent. May cause clinical effects including sedation, bradycardia, hypotension, hyperglycaemia, respiratory depression and coma. Acute symptoms and effects:
Effects like drowsiness, decrease in heart rate, slowing of respiration. May result in coma and death.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide (CO2). Foam, powder.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Do not discharge into drains or the environment. Do not breathe fumes.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid any direct contact with the product. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust. Do not smoke. Avoid creating or spreading dust.

6.1.2. For emergency responders

Protective equipment : Evacuate the danger area. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Do not allow product to spread into the environment. Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

For containment : Sweep up or vacuum up the product. Avoid creating or spreading dust.
Other information : Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Extraction to remove dust at its source. Avoid any direct contact with the product. Do not breathe dust. Avoid creating or spreading dust. Access forbidden to unauthorised personnel.

Hygiene measures : Do not drink, eat or smoke in the workplace. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

Storage conditions : Store in a dark area. Store, if possible, in a cool, well ventilated place away from incompatible materials. Store locked up.

Packaging materials : Polyethylene. Glass.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station. Extraction to remove dust at its source. Access forbidden to unauthorised personnel.

Hand protection : Protective gloves.

Eye protection : Safety glasses with side shields.

Skin and body protection : Protective clothing.

Respiratory protection : Breathing apparatus with filter P3.

Environmental exposure controls : Discharging into rivers and drains is forbidden.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder.

Colour : No data available

Odour : Odourless.

Odour threshold : No data available

pH : 8,2 (1g/L) (CIPAC MT 75,3)

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 110 - 116 °C (EC A.1, OECD 102)

Freezing point : No data available

Boiling point : No data available

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Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: > 150 °C (EC A.2, OECD 103)
Flammability (solid, gas)	: No data available
Vapour pressure	: 0,0035 mPa (20°C, OECD104)
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1,113 g/cm ³
Solubility	: Water: 186 mg/l (pH 7,9 & 20°C) (EC A6) Acetone: 2 - 170 g/100ml Organic solvent:Soluble
Log Pow	: 3,1 (pH 9 & 20°C) (EC A.8, OECD 107)
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing material according to EC criteria.
Explosive limits	: No data available

9.2. Other information

Other properties : Particles size : 0.3% (< 10 µm). Surface tension 63.5 mN/m (EC A.5, OECD 115).

SECTION 10: Stability and reactivity

10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Acetone.

10.6. Hazardous decomposition products

Carbon dioxide (CO₂). Various hydrocarbon fragments.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Fatal if swallowed. Fatal if inhaled.

Selektope (86347-14-0)	
LD50 oral rat	> 31,25 mg/kg
LD50 dermal rat	> 2000 mg/kg (OECD402)
LC50 inhalation rat	0,14 mg/l/4h (OECD 403)

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) Not irritating to rabbits on cutaneous application (OECD 404) pH: 8,2 (1g/L) (CIPAC MT 75,3)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) Not irritating to rabbits on ocular application (OECD 405) pH: 8,2 (1g/L) (CIPAC MT 75,3)
Respiratory or skin sensitisation	: Not classified (Lack of data) Does not cause cutaneous sensitisation for guinea-pigs (Aqueous solution - 0.06%)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met. OECD 471)
Carcinogenicity	: Not classified (Lack of data. No carcinogenic effects reported)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met) LOAEL : 24 µg/kg
Specific target organ toxicity (single exposure)	: Not classified (Lack of data)

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Specific target organ toxicity (repeated exposure)	: Not classified (Lack of data)
Aspiration hazard	: Not classified (Technical impossibility to obtain the data)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Selektope (86347-14-0)	
LC50 fish	30 mg/l/96h (Zebra fish) (OECD 203)
EC50 Daphnia	4,5 mg/l/48h (Daphnia magna) (OECD 202)
ErC50 (algae)	0,34 mg/l/72h (Scenedesmus subspicatus)
NOEC (chronic)	0,005 mg/l (America-mysis bahia) (28days)

12.2. Persistence and degradability

Selektope (86347-14-0)	
Persistence and degradability	Not readily biodegradable (OECD 301). Half-life (d) : 110.

12.3. Bioaccumulative potential

Selektope (86347-14-0)	
BCF	< 1
Log Pow	3,1 (pH 9 & 20°C) (EC A.8, OECD 107)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Selektope (86347-14-0)	
Results of PBT assessment	The product does not meet the PBT and vPvB classification criteria

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Store in tightly closed containers. Dispose of in accordance with relevant local regulations. Destroy at an authorised site.
Additional information	: The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

SECTION 14: Transport information

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

14.1. UN number

UN-No (ADR)	: 2811
UN-No.(IATA)	: 2811
UN-No. (IMDG)	: 2811

14.2. UN proper shipping name

Proper Shipping Name	: TOXIC SOLID, ORGANIC, N.O.S.
Transport document description	: UN 2811 TOXIC SOLID, ORGANIC, N.O.S. ((±)-4-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole), 6.1, II, (D/E)

14.3. Transport hazard class(es)

Class (UN)	: 6.1
Classification code (UN)	: T2
Class (IATA)	: 6.1
Class (IMDG)	: 6.1
Hazard labels (UN)	: 6.1



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14.4. Packing group

Packing group (UN) : II
Packing group (IMDG) : II

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes

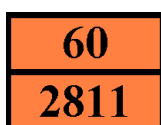


Other information : Dangerous for the environment.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 60
Classification code (UN) : T2
Orange plates :



Special provision (ADR) : 274, 614
Transport category (ADR) : 2
Tunnel restriction code : D/E
Limited quantities (ADR) : 500g
LQ : LQ18
Excepted quantities (ADR) : E4

14.6.2. Transport by sea

MFAG-No : 154

14.6.3. Air transport

No additional information available

14.6.4. Inland waterway transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

No REACH Annex XVII restrictions

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

This sheet was updated (refer to the date at the top of this page). Revision : §1.3.

Other information : Safety data sheet established by : LISAM SERVICES - TELEGIS
17, Rue de la Couture F-60400 PASSEL
Safety Made Easy with www.lisam.com.

Full text of R-, H- and EUH-phrases::

Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1

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H300	Fatal if swallowed
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R25	Toxic if swallowed
R26	Very toxic by inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
T	Toxic
T+	Very toxic

SDS EU (REACH Annex II)

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