

according to UK REACH Regulation

H-L-Idc-OH

Revision date: 13.06.2023

Product code: HAA1244

Page 1 of 11

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

1.1. Product identifier

H-L-Idc-OH

Further trade names

(S)-(-)-Indoline-2-carboxylic acid H-Idc-OH (S)-2,3-dihydro-1H-indole-2-carboxylic acid Substance name: (S)-2,3-dihydro-1H-indole-2-carboxylic acid REACH Registration Number: 01-2119913300-57-XXXX CAS No: 79815-20-6 Index No: 607-330-00-X EC No: 410-860-2

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

Use of the substance/mixture

Laboratory chemical. Manufacture of the substance.

Uses advised against

Do not use for private purposes (household). Restrictions on use: Pharmaceutical substance

1.3. Details of the supplier of the safety data sheet

Company name:	Iris Biotech GmbH	
Street:	Adalbert-Zoellner-Straße 1	
Place:	D-95615 Marktredwitz, Germany	
Post-office box:	568	
	D-95605 Marktredwitz, Germany	
Telephone:	+49 9231 97121 0	Telefax: +49 9231 97121 99
e-mail:	info@iris-biotech.de	
Contact person:	Compliance Department	Telephone: +49 9231 97121 0
e-mail:	sds@iris-biotech.de	
Internet:	www.iris-biotech.de	
Responsible Department:	Only available during office hours.	
1.4. Emergency telephone	+49 (0)89 19240 (POISON CENTER Munic	ch: 24 h)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Repr. 2; H361f Skin Sens. 1; H317 STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Signal word:

Warning



H-L-Idc-OH

Revision date: 13.06.2023

Pictograms:

Product code: HAA1244

Page 2 of 11





Hazard statements

H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure

Precautionary statements

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P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
P302+P352	IF ON SKIN: Wash with plenty of Water.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to an approved disposal site.

Special labelling of certain mixtures

Restricted to professional users.

Additional advice on labelling

Warning - substance not yet tested completely.

Labelling of packages where the contents do not exceed 125 ml

Signal word:

Pictograms:



Hazard statements

H317-H361f

Precautionary statements

P201-P280-P302+P352-P308+P313-P362+P364-P501

2.3. Other hazards

Product is not dust explosive in its original delivery form. The addition of particulate matter, however, results in a dust explosion risk.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

(S)-2,3-dihydro-1H-indole	-2-carboxylic acid
Sum formula:	C9H9NO2
Molecular weight:	163,17 g/mol



according to UK REACH Regulation

H-L-Idc-OH

Revision date: 13.06.2023

Product code: HAA1244

Page 3 of 11

Hazardous components

CAS No	Chemical name				
	EC No	REACH No			
	Classification (GB CLP Regulation)				
79815-20-6	(S)-2,3-dihydro-1H-indole-2-carbox	(S)-2,3-dihydro-1H-indole-2-carboxylic acid			
	410-860-2 607-330-00-X 01-2119913300-57-XXXX				
	Repr. 2, Skin Sens. 1, STOT RE 2; H361f H317 H373				

Full text of H and EUH statements: see section 16.

Specific Cond	Specific Conc. Limits, M-factors and ATE					
CAS No	EC No	EC No Chemical name Quantity				
	Specific Conc. I	imits, M-factors and ATE				
79815-20-6	410-860-2 (S)-2,3-dihydro-1H-indole-2-carboxylic acid 100 %					
	dermal: LD50 = >2000 mg/kg; oral: LD50 = 5500 mg/kg					

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice. Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist. If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps.

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

No information available.

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

Co-ordinate fire-fighting measures to the fire surroundings. Water spray. alcohol resistant foam. Dry extinguishing powder. Sand.

Unsuitable extinguishing media

High power water jet.

according to UK REACH Regulation

H-L-Idc-OH

Revision date: 13.06.2023

Product code: HAA1244

Page 4 of 11

5.2. Special hazards arising from the substance or mixture

Non-flammable. Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrogen oxides (NOx).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Usual measures for fire prevention.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray.

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Avoid contact with skin, eyes and clothes.

Wear personal protection equipment.

In case of fire: Evacuate area.

For non-emergency personnel

Do not touch or walk through spilled material. Absolutely avoid dust development and inhalation of dust. Provide adequate ventilation.

Evacuate the danger area, observe emergency procedures, consult an expert.

Personal protection equipment: see section 8

For emergency responders

Take up mechanically, placing in appropriate containers for disposal. Take up dust-free and set down dust-free.

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

For containment

Avoid dust formation.

For cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Take up mechanically.

Other information

Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clear contaminated areas thoroughly.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust. Provide adequate ventilation.



according to UK REACH Regulation

H-L-Idc-OH

Revision date: 13.06.2023

Product code: HAA1244

Page 5 of 11

Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep container tightly closed in a cool, well-ventilated place.

Handle and store contents under inert gas. Protect from moisture.

storage temperature: +2°C - +8°C

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves.

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.



according to UK REACH Regulation

H-L-ldc-OH

Revision date: 13.06.2023

Product code: HAA1244

Page 6 of 11

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

No data available

Environmental exposure controls

Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid	
Colour:	white/ whitish/ beige	
Odour:	No data available	
Odour threshold:	not determined	
		Test method
Melting point/freezing point:	177 °C	(decomposition)
Boiling point or initial boiling point and	> 250 °C	
boiling range:		
Flammability:	not determined	
Lower explosion limits:	No data available	
Upper explosion limits:	No data available	
Flash point:	No data available	
Auto-ignition temperature:	No data available	
Decomposition temperature:	177 °C	
pH-Value:	No data available	
Viscosity / kinematic:	not applicable	
Water solubility:	6,5 g/L	Regulation (EC) No.
(at 20 °C)		440/2008, Annex A.6
Solubility in other solvents		
not determined		
Dissolution rate:	No data available	
Partition coefficient n-octanol/water:	No data available	
Dispersion stability:	No data available	/
Vapour pressure:	0,0005 hPa	Regulation (EC) No.
(at 25 °C)	Nie diete erselleite	440/2008, Annex A.4
Density:	No data avaliable	Regulation (EC) No. 440/2008, Annex A.3
Relative density (at 20 °C):	1,42	110,2000,74110,74.0
Bulk density:	No data available	
Relative vapour density:	No data available	
Particle characteristics:	No data available	
2. Other information		

9.2. Other information

Information with regard to physical hazard classes



H-L-Idc-OH				
Revision date: 13.06.2023	Product code: HAA1244	Page 7 of 11		
Explosive properties				
The product is not: Explosive. Prod particulate matter, however, results	uct is not dust explosive in its original delivery form. The addition of in a dust explosion risk.			
Sustaining combustion:	No data available			
Self-ignition temperature				
Solid:	No data available			
Oxidizing properties				
No data available				
Other safety characteristics				
Evaporation rate:	not determined			
Solvent content:	No data available			
Solid content:	not determined			
Viscosity / dynamic:	not applicable			
Flow time:	not applicable			
Further Information				

Surface tension: ca.70,2 mN/m - 1g/l (20 °C)

SECTION 10: Stability and reactivity

10.1. Reactivity

The following applies to flammable, organic substances and mixtures in general: With appropriately fine distribution, when whirled up, a dust explosion potential can generally be assumed.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Protect from moisture. Keep away from heat.

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrogen oxides (NOx).

Further information

In case of fire: See chapter 5.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

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



according to UK REACH Regulation

H-L-Idc-OH

Revision date: 13.06.2023

Product code: HAA1244

Page 8 of 11

CAS No	Chemical name	Chemical name					
	Exposure route	Dose		Species	Source	Method	
79815-20-6	(S)-2,3-dihydro-1H-indole	(S)-2,3-dihydro-1H-indole-2-carboxylic acid					
	oral	LD50 55 mg/kg	00	Rat - male + female		OECD 401	
	dermal	LD50 >2 mg/kg	000	Rat - male + female		OECD 402	

Irritation and corrosivity

Based on available data, the classification criteria are not met. Skin corrosion/irritation: Skin - rabbit. Result: No skin irritation - 4 h OECD 404

Serious eye damage/eye irritation: Eyes - rabbit. Result: No eye irritation OECD 405

Sensitising effects

May cause an allergic skin reaction. ((S)-2,3-dihydro-1H-indole-2-carboxylic acid) Respiratory or skin sensitisation: Guinea-pig. Result: positive. Regulation (EC) No. 440/2008, Annex B.6 (Maximisation test)

Note: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2).

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility. ((S)-2,3-dihydro-1H-indole-2-carboxylic acid) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Germ cell mutagenicity: In vivo micronucleus test - Mouse. Application route: oral Result: negative

STOT-single exposure

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

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. ((S)-2,3-dihydro-1H-indole-2-carboxylic acid)

Note: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2).

Aspiration hazard

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

Specific effects in experiment on an animal

No data available

Additional information on tests

Repeated dose toxicity: Rat - oral - Dose at which no harmful effects were observed: 25 mg/kg

Practical experience

No data available



H-L-Idc-OH

Revision date: 13.06.2023

Product code: HAA1244

Page 9 of 11

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture! RTECS: No data available Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
79815-20-6	(S)-2,3-dihydro-1H-indole	2-carboxy	lic acid				
	Acute fish toxicity	LC50	269 mg/l		Cyprinus carpio (Common Carp)		Regulation (EC) No. 440/2008, Annex C.1
	Acute crustacea toxicity	EC50 mg/l	58,4		Daphnia magna (Big water flea)		Regulation (EC) No. 440/2008, Annex C.2

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

OECD 117: No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
79815-20-6	(S)-2,3-dihydro-1H-indole-2-carboxylic acid	0,4

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Warning - substance not yet tested completely.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Consult the appropriate local waste disposal expert about waste disposal.

Handle contaminated packages in the same way as the substance itself.



H-L-Idc-OH

Revision date: 13.06.2023

Product code: HAA1244

Page 10 of 11

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID) <u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
Inland waterways transport (ADN) <u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
Marine transport (IMDG)	
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
Air transport (ICAO-TI/IATA-DGR) <u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
14.6. Special precautions for user No information available.	
14.7. Maritime transport in bulk according to	o IMO instruments
not applicable	
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture
EU regulatory information	
Restrictions on use (REACH, annex XVII): Entry 75	
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)
Additional information	
Safety Data Sheet according to Regula	ation (EC) No. 1907/2006 (REACH)
National regulatory information	
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water hazard class (D):	2 - obviously hazardous to water
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.
Additional information	
Restricted to professional users.	
<u>15.2. Chemical safety assessment</u> For this substance a chemical safety a	ssessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road). IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals



according to UK REACH Regulation

H-L-Idc-OH

Revision date: 13.06.2023

Product code: HAA1244

Page 11 of 11

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). Relevant H and EUH statements (number and full text) H317 May cause an allergic skin reaction.

- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.