

Halo-PEG(4)-NH2*HCI

Revision date: 19.09.2023

Product code: RL-3690

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

1.1. Product identifier

Halo-PEG(4)-NH2*HCI

Further trade names

18-Chloro-3,6,9,12-tetraoxa-octadecan-1-amine hydrochloride CAS No: 1261238-20-3

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 Muni	ch: 24 h)

number:

Further Information

This product does not meet the criteria for classification into a hazardous class according to Regulation (EC) No 1272/2008 on the classification, labeling and packaging of substances and mixtures. A safety data sheet is provided which does not fully comply with Article 31 and Annex II of REACH.

Voluntary safety information following the Safety Data Sheet format according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This substance is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Regulation (EC) No 1272/2008

Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.

Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none (GHS/CLP criteria are not met.)



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Warning - substance not yet tested completely.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

18-Chloro-3,6,9,12-tetraoxa-octadecan-1-amine hydrochlori		
Sum formula:	C14H30CINO4*HCI	
Molecular weight:	311,85*36,46 g/mol	

Hazardous components

none (according to Regulation (EC) No 1907/2006 (REACH))

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. 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

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

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. 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

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. Carbon dioxide (CO2). Sand.

Unsuitable extinguishing media

High power water jet.

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).

according to Regulation (EC) No 1907/2006

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5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

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 breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. In case of fire: Evacuate area.

For non-emergency personnel

Wear personal protection equipment (refer to section 8). Cover drains.

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

For emergency responders

Cover drains. Stop and contain spill/release if it can be done safely.

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6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Stop and contain spill/release if it can be done safely.

For cleaning up

Universal binder/ Binder

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. 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

Provide adequate ventilation. 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

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

according to Regulation (EC) No 1907/2006

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Handle and store contents under inert gas. Protect from moisture. storage temperature: -20°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

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.

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.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and che	mical properties		
Physical state:	liquid		
Colour:	colourless - yellow		
Odour:	No data available		
Odour threshold:	not determined		
Melting point/freezing point:		not determined	
Boiling point or initial boiling point and		not determined	
boiling range:			
Flammability:		not applicable	
Lower explosion limits:		not determined	
Upper explosion limits:		not determined	
Flash point:		No data available	
Auto-ignition temperature:		not determined	
Decomposition temperature:		not determined	
pH-Value:		not determined	
Viscosity / kinematic:		not determined	
Water solubility:		No data available	
Solubility in other solvents			
not determined			
Dissolution rate:		not determined	
Partition coefficient n-octanol/water:		not determined	
Dispersion stability:		not determined	
Vapour pressure:		not determined	
Density:		not determined	
Relative density:		No data available	
Bulk density:		not applicable	
Relative vapour density:		not determined	
Particle characteristics:		not applicable	
9.2. Other information			
Information with regard to physical haz	ard classes		
Explosive properties			
No data available			
Sustaining combustion:		No data available	
Self-ignition temperature			
Solid:		not applicable	
Gas:		not applicable	
Oxidizing properties			
No data available			
Other safety characteristics			
Solvent content:		No data available	
Solid content:		not applicable	
Viscosity / dynamic:		not determined	
Flow time:		not determined	

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions.



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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 Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

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

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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.

STOT-single exposure

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

STOT-repeated exposure

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

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

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Practical experience

No data available

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Further information

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.



according to Regulation (EC) No 1907/2006

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SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

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 REACH, annex XIII.

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

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID) 14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
Inland waterways transport (ADN) 14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
Marine transport (IMDG) <u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
Air transport (ICAO-TI/IATA-DGR) 14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
<u>14.6. Special precautions for user</u> 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 regulations/legislation specific for the substance or mixture



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Ell roquiete	ny information		
-	ry information		
	according to 2012/18/EU	Not subject to 2012/18/EU (SEVESO III)	
(SEVESO III):		
Additional in	nformation		
Safety D	ata Sheet according to Regu	lation (EC) No. 1907/2006 (REACH)	
National reg	ulatory information		
Water hazar	-	3 - highly hazardous to water	
	safety assessment		
		assessment has not been carried out.	
SECTION 16:	Other information		
Abbreviatio	ns and acronyms		
		national des marchandises dangereuses par route	
		nal Carriage of Dangerous Goods by Road).	
	ternational Maritime Code fo	-	
	ernational Air Transport Ass		
		f Classification and Labelling of Chemicals	
		ting Commercial Chemical Substances	
	European List of Notified Ch	nemical Substances	
	emical Abstracts Service		
	ethal concentration, 50% ethal dose, 50%		
	assification, labelling and Pac	skaging	
	Registration, Evaluation and		
	-	f Classification, Labelling and Packaging of Chemicals	
	ed Nations	, , , , , , , , , , , , , , , , , , , ,	
	emical Abstracts Service		
DNEL: D	erived No Effect Level		
DMEL: D	Derived Minimal Effect Level		
-	Predicted No Effect Concentra	ation	
	ute toxicity estimate		
	thal loading, 50%		
	fect loading, 50%		
	ffective Concentration 50%	growth rate	
	Effective Concentration 50%,	-	
	No Observed Effect Concentr p-concentration factor	aliun	
-	sistent, bioaccumulative, tox	ic	
	ery persistent, very bioaccum		
		rnational carriage of dangerous goods by rail	
-		ng the International Carriage of Dangerous Goods by Inland Waterways	
		international des marchandises dangereuses par voies de navigation	
intérieure			
	nergency Schedules		
	Aedical First Aid Guide		
IATA: Int	ernational Air Transport Ass	ociation	
ICAO: In	ternational Civil Aviation Org	anization	
MARPOL	L: International Convention for	or the Prevention of Marine Pollution from Ships	
-	rmediate Bulk Container		
	Substance of Very High Conc		
For abbr	eviations and acronyms see	table at http://abbrev.esdscom.eu	

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu



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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.