

Safety Data Sheet

according to UK REACH Regulation

D-threo-Methylphenidate hydrochloride

Revision date: 23.03.2022

Product code: 1593

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

D-threo-Methylphenidate hydrochloride

Further trade names

2-Piperidineacetic acid, alpha-phenyl-, methyl ester, (alphaR,2R)

Synonyms:2-Piperidineacetic acid, a-phenyl-, methyl ester, [R-(R*,R*)]; (+)-threo-Methylphenidate;
d-threo-Methylphenidate; Dexmethylphenidate; threo-(+)-Methylphenidate

CAS No: 19262-68-1

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

Reference standard for D-threo-[11C]Methylphenidate

1.3. Details of the supplier of the safety data sheet

Company name:	ABX advanced biochemical compounds		
	Biomedizinische Forschungsreagenzien GmbH		
Street:	Heinrich-Gläser-Straße 10-14		
Place:	01454 Radeberg		
Telephone:	+49 3528 4041 60	Telefax:	+49 3528 4041 65
e-mail:	info@abx.de		
Contact person:	Dr. Christoph Meyer	Telephone:	+49 3528 4041 8732
e-mail:	meyer@abx.de		
Internet:	http://www.abx.de		

1.4. Emergency telephone number: +49 3528 4041 60**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Acute Tox. 4; H302

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

D-threo-Methylphenidate hydrochloride

Signal word: Warning**Pictograms:****Hazard statements**

H302 Harmful if swallowed.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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2.3. Other hazards

Controlled substance, license required in most countries.

SECTION 3: Composition/information on ingredients**3.1. Substances****Chemical characterization**

2-Piperidineacetic acid, alpha-phenyl-, methyl ester, (alphaR,2R)

Sum formula: C₁₄H₁₉NO₂ x HCl

Molecular weight: 269.77

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
19262-68-1	D-threo-Methylphenidate hydrochloride			95 - < 100 %
	Acute Tox. 4; H302			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
19262-68-1		D-threo-Methylphenidate hydrochloride	95 - < 100 %
		oral: LD50 = 350 mg/kg	

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

After contact with eyes

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

After ingestion

If swallowed, immediately drink: Water. Call a physician immediately.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Co-ordinate fire-fighting measures to the fire surroundings. Suitable extinguishing media: Foam. Extinguishing powder. Carbon dioxide (CO₂). Atomized water.**5.3. Advice for firefighters**

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

Additional information

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

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6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**Other information**

Take up mechanically. 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**Do not breathe dust. Conditions to avoid: skin contact. Eye contact. Wear personal protection equipment.
When using do not eat, drink, smoke, sniff.**Advice on general occupational hygiene**

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container dry. Keep container tightly closed. Keep locked up.

Further information on storage conditions

Maximum storage temperature: 30 °C

Protect against: Light.

Store under (Gas): argon. Nitrogen.

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.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	solid
Colour:	colourless

Changes in the physical state

Melting point/freezing point:	215 - 217 °C
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Water solubility:	partially soluble
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Solubility in other solvents

Methanol. dimethylsulphoxide (DMSO).

SECTION 10: Stability and reactivity**10.4. Conditions to avoid**

Light.

10.6. Hazardous decomposition productsCarbon dioxide. Carbon monoxide. Nitrogen oxides (NO_x). Hydrochloric gas.**SECTION 11: Toxicological information**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
19262-68-1	D-threo-Methylphenidate hydrochloride				
	oral	LD50 350 mg/kg	Rat		

SECTION 12: Ecological information**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.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

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

List of Wastes Code - residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled.

SECTION 14: Transport information**Other applicable information**

Not a hazardous material with respect to these transportation regulations.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water hazard class (D): 3 - highly hazardous to water

SECTION 16: Other information

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Relevant H and EUH statements (number and full text)

H302

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