according to UK REACH Regulation

Revision date: 05.12.2024 SECTION 1: Identification of the subst 1.1. Product identifier FDM Further trade names D-Mannopyranose, 2-deoxy-2-fluoro Synonymes: 2-Fluoro-2-deoxy-D-mannopyranose; CAS No: 310 1.2. Relevant identified uses of the substa Use of the substance/mixture Analytical standard for validation of [1]	; 2-Deoxy-2-fluoro-D-manno 077-88-0 ance or mixture and uses ad	company/undertaking	Page 1 of 5
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Use of the substance/mixture			
	19FIFDC symthesis (2 [19FIF		
Analytical standard for validation of [1	19515DC averthagia (2 [19515		
	TOFIFUG Synulesis (2-1 TOFIF	Fluoro-2-deoxy-D-glucose)	
1.3. Details of the supplier of the safety da	ata sheet		
Company name: AB2 Bio	X advanced biochemical con medizinische Forschungsrea		
	inrich-Gläser-Straße 10-14		
• • • • • • • • •	454 Radeberg 9 3528 4041 60	Telefax: +49 3528 4041 65	
1	9 3528 404 1 60 fo@abx.de	Telelax. +49 3526 404 1 65	
	Christoph Meyer	Telephone: +49 3528 4041 8732	
-	eyer@abx.de		
	p://www.abx.de		
1.4. Emergency telephone +49 number: +49	9 3528 4041 60		
SECTION 2: Hazards identification			

Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Signal word: Pictograms:



Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection/hearing
protection.
IF ON SKIN: Wash with plenty of water.

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P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C6H11FO5
Molecular weight:	182.15

Relevant ingredients

CAS No	Chemical name		Quantity		
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation)				
31077-88-0	D-Mannopyranose, 2-deoxy-2-fluoro			95 - < 100 %	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335				

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

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

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

After contact with eyes

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 swallowed, immediately drink: Water. Medical treatment necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Suitable extinguishing media: Foam. Extinguishing powder. Atomized water. Carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

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

Additional information

Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

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. Wear personal protection equipment.

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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. Clear contaminated areas thoroughly.

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. Do not breathe dust. When using do not eat, drink, smoke, sniff.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. 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 the packing dry and well sealed to prevent contamination and absorbtion of humidity.

Further information on storage conditions

storage temperature: of °C: -25 up to °C: -15 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. Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Single-use gloves. NBR (Nitrile rubber).

Skin protection

Lab apron. Chemical resistant safety shoes.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	colourless
Odour:	odourless
Melting point/freezing point:	
Water solubility:	

123-125 °C Yes

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Solubility in other solvents

Methanol. dimethylsulphoxide (DMSO).

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

Light.

10.5. Incompatible materials

Oxidizing agents, strong. Water.

10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon dioxide. Carbon monoxide. fluorhydric acid.

SECTION 11: Toxicological information

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

Irritation and corrosivity

Irritating to eyes. Following inhalation: Lung irritation. Coughing. shortage of breath. After skin contact: irritant.

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

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

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

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SECTION 14: Transport information

Other applicable information

No dangerous good in sense of these transport 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

Abbreviations and acronyms

Skin Irrit: Skin irritation Eye Irrit: Eye irritation STOT SE: Specific target organ toxicity - single exposure

Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.