

according to Regulation (EC) No. 1907/2006 (REACH)

D(+)-Lactose monohydrate for biochemistry

Versio	n number: GHS 1.0	Date of compilation: 2021-09-07
SEC	TION 1: Identification of the substance/	mixture and of the company/undertaking
1.1	Product identifier	
	Identification of the substance	D(+)-Lactose monohydrate for biochemistry
	Registration number (REACH)	this information is not available
	CAS number	10039-26-6
	Article number	1109
1.2	Relevant identified uses of the substan	ce or mixture and uses advised against
	Relevant identified uses	General use
1.3	Details of the supplier of the safety dat	a sheet
	NeoFroxx GmbH Marie-Curie-Str. 3 D-64683 Einhausen Germany	
	Telephone: +49 (6251) 989 24 - 0 e-mail: info@neofroxx.com Website: neofroxx.com	
	e-mail (competent person)	info@neofroxx.com (neoFroxx GmbH)
1.4	Emergency telephone number	

Poison centre			
Country	Name	Postal code/city	Telephone
United Kingdom	National Poisons Information Service		111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP) not required

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.



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3.1	Substances	
	Name of substance	D(+)-Lactose monohydrate for biochemistry
	Identifiers	
	CAS No	10039-26-6
	EC No	200-559-2
	Molecular formula	C12H22O11 · H2O
	Molar mass	360.3 ^g / _{mol}

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Brush off loose particles from skin. Rinse skin with water/shower.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
 - Suitable extinguishing media

Water, Foam, ABC-powder

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Deposited combustible dust has considerable explosion potential.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)



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5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres Removal of dust deposits.
- Ventilation requirements

Use local and general ventilation.



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7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

-	-			-	-		 			
Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]		Ceiling-C [mg/m³]		Source
GB	dust		WEL		10				i	EH40/ 2005
GB	dust		WEL		4				r	EH40/ 2005

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

inhalable fraction respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection Wear protective gloves.
- Type of material

NBR: acrylonitrile-butadiene rubber

- Material thickness

min. 0,11 mm

- Breakthrough times of the glove material >480 minutes (permeation: level 6)
- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Colour	white
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	not applicable
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not applicable
Kinematic viscosity	not relevant
Solubility(ies)	not determined

Partition coefficient

	Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure not determined	
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Density and/or relative density

Density	not determined
Relative vapour density	information on this property is not available

Particle characteristics	no data available
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Classification according to GHS (1272/2008/EC, CLP)

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.



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Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

- **12.5 Results of PBT and vPvB assessment** Data are not available.
- **12.6 Endocrine disrupting properties**
- 12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.



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SECTION 14: Transport informatio

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- 14.1 UN number or ID number
- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards

not subject to transport regulations

not relevant

none

not assigned

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

not listed

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

not listed

Deco-Paint Directive

VOC content	0 %

Industrial Emissions Directive (IED)

VOC content

0 %

Water Framework Directive (WFD)

not listed

Regulation on persistent organic pollutants (POP)

Not listed.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.



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SECTION 16: Other information

Abbreviations and acronyms

ADNAccord européen relatif au transport international des marchandises dangereuses par voies de r tion intérieures (European Agreement concerning the International Carriage of Dangerous Good land Waterways)ADRAccord relatif au transport international des marchandises dangereuses par route (Agreement co- ing the International Carriage of Dangerous Goods by Road)CASChemical Abstracts Service (service that maintains the most comprehensive list of chemical substCeiling-CCeiling valueCLPRegulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtDGRDangerous Goods Regulations (see IATA/DGR)EC NoThe EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, ar fier of substances commercially available within the EU (European Union)EH40/2005EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-governme cence/)EINECSEuropean Inventory of Existing Commercial Chemical SubstancesGHS"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the Unit tionsIATAInternational Air Transport Association	s by In- oncern- cances) cures
ing the International Carriage of Dangerous Goods by Road) CAS Chemical Abstracts Service (service that maintains the most comprehensive list of chemical subst Ceiling-C Ceiling value CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixt DGR Dangerous Goods Regulations (see IATA/DGR) EC No The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, ar fier of substances commercially available within the EU (European Union) EH40/2005 EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-governme cence/) EINECS European Inventory of Existing Commercial Chemical Substances GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the Unit tions	ances) aures
Ceiling-C Ceiling value CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixt DGR Dangerous Goods Regulations (see IATA/DGR) EC No The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, ar fier of substances commercially available within the EU (European Union) EH40/2005 EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-governmercence/) EINECS European Inventory of Existing Commercial Chemical Substances GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the Unit tions	ures
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GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the Unit tions	
tions	
IATA International Air Transport Association	ed Na-
IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO International Civil Aviation Organization	
IMDG International Maritime Dangerous Goods Code	
NLP No-Longer Polymer	
PBT Persistent, Bioaccumulative and Toxic	
ppm Parts per million	
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Re tions concerning the International carriage of Dangerous goods by Rail)	gula-
STEL Short-term exposure limit	
SVHC Substance of Very High Concern	
TWA Time-weighted average	
VOC Volatile Organic Compounds	
vPvB Very Persistent and very Bioaccumulative	
WEL Workplace exposure limit	

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.



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Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. The information is intended to give you guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.