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MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: Acarbose, ≥95% Product Code: A 0855 CAS No : 56180-94-0 1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate,
Chinchpada, Vasai East, Waliv, Maharashtra 401208.
Email <u>info@ottokemi.com</u>

1.4. Emergency telephone number Phone no. : + 91 22 2207 0099 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008
2.2 Label elements
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008
2.3 Other hazards – none

SECTION 3: Composition/information on ingredients

3.1 Substances Synonyms : 4",6"-Dideoxy-4"-([1S]-[1,4,6/5]-4,5,6-trihydroxy-3hydroxymethyl-2-yclohexenylamino)-maltotriose Formula : C25H43NO18 Molecular weight : 645,60 g/mol CAS-No. : 56180-94-0 EC-No. : 260-030-7 No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

4.1 Description of first-aid measures If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of skin contact
Wash off with soap and plenty of water. In case of eye contact
Flush eyes with water as a precaution. If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.
4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
Carbon oxides
Nitrogen oxides (NOx)
5.3 Advice for firefighters

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Wear self-contained breathing apparatus for firefighting if necessary. 5.4 Further information No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapors, mist or gas.
For personal protection see section 8.
6.2 Environmental precautions Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Advice on protection against fire and explosion Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection. Hygiene measures General industrial hygiene practice. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class Storage class Storage class (TRGS 510): 13: Non Combustible Solids 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 Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eve/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection 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. Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state b) Color c) Odor d) Melting point/freezing point e) Initial boiling point and boiling range f) Flammability (solid,gas) g) Upper/lower flammability or explosive limits h) Flash point i) Autoignition temperature j) Decomposition k) pH I) Viscosity Viscosity, kinematic: Viscosity, dynamic: m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density g) Relative vapor density r) Particle characteristics s) Explosive properties t) Oxidizing properties 9.2 Other safety information

SECTION 10: Stability and reactivity

10.1 Reactivity:No data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions:No data available
10.4 Conditions to avoid:No data available
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - 24.000 mg/kg Remarks: (RTECS) Inhalation: No data available Dermal: No data available Skin corrosion/irritation:No data available

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Solid No data available Odorless No data available

No data available No data available

No data available No data available No data available No data availabletemperature No data available No data available No data available Soluble

No data available No data available

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Serious eye damage/eye irritation:No data available Respiratory or skin sensitization:No data available Germ cell mutagenicity:No data available Carcinogenicity:No data available Reproductive toxicity:No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard:No data available 11.2 Additional Information To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.		
SECTION 12: Ecological information 12.1 Toxicity:No data available 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 PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.6 Endocrine disrupting properties:No data available 12.7 Other adverse effects:No data available		
SECTION 13: Disposal considerations 13.1 Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product.		
SECTION 14: Transport information		
14.1 UN number		
ADR/RID: -	IMDG: -	IATA: -
14.2 UN proper shipping name		
ADR/RID:- Not dangerous goods 14.3 Transport hazard class(es)	IMDG:- Not dange <mark>rou</mark> s goods	IATA:- Not dangerous goods
ADR/RID: -	IMDG: -	IATA: -
14.4 Packaging group		
ADR/RID: - 14.5 Environmental hazards	IMDG: -	IATA: -
ADR/RID:-no	IMDG Marine pollutant:- no	IATA:- no
14.6 Special precautions for user		
Further information Not classified as dangerous in the meaning of transport regulations.		
not orassined as dangerous in the meaning of transport regulations.		
SECTION 15: Regulatory information 15.1 Safety, health and environmental substance or mixture This material safety data sheet complie 1907/2006. International Chemical Weapons Conv	regulations/legislation specific for the as with the requirements of Regulation (E	C) No.
(ONO) Other data of Tarde Other and		

(CWC) Schedules of Toxic Chemicals and Precursors

Restrictions on the marketing and use of certain dangerous substances

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the

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export and import of dangerous chemicals

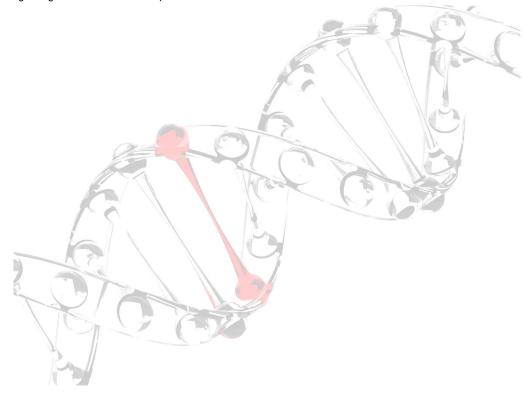
Candidate List of Substances of Very High Concern for Authorisation

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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