

	nce/mixture and of the company/undertaking
1.1 Product identifier Trade name	Sodium totraborato docabudrato
Stock number:	Sodium tetraborate decahydrate
CAS Number: EC number:	1303-96-4 215-540-4
Index number:	005-011-01-1
1.2 Relevant identified uses of the substance Identified use:	SU24 Scientific research and development
1.3 Details of the supplier of the safety data Manufacturer/Supplier:	sheet Alfa Aesar GmbH & Co.KG
Manufacturer/Supplier.	A Johnson Matthey Company Zeppelinstr. 7b
	76185 Karlsruhe / Germany
	Tof185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300
	Email. Jech@alia.com
Informing department: 1.4 Emergency telephone number:	Product safety Tel + +049 (0) 7275 988687-0 Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number)
	Poison Information Center Mainz www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240
SECTION 2: Hazards identification	
2.1 Classification of the substance or mixtur	e
Classification according to Regulation (EC)	
GHS08 health hazard	
Repr. 1B H360FD May damage fertility. May d	amage the unborn child.
Classification according to Directive 67/548/	
💆 T; Toxic Repr. Cat. 2	
	to the unborn child.
R60-61: May impair fertility. May cause harm Information concerning particular hazards for human and environment:	Not applicable
Other hazards that do not result in classification	No information known.
2.2 Label elements	
Labelling according to Regulation (EC) No 1272/2008	The substance is classified and labelled according to the CLP regulation.
Hazard pictograms	
	GHS08
Signal word	Danger
Hazard statements Precautionary statements	H360FD May damage fertility. May damage the unborn child. P281 Use personal protective equipment as required. P201 Obtain special instructions before use.
	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P308+P313 IF exposed or concerned: Get medical advice/attention.
	P405 Store locked up.
2.3 Other hazards	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
Results of PBT and vPvB assessment PBT:	Not applicable.
vPvB:	Not applicable.
SECTION 3: Composition/information of	on ingredients
3.1 Substances CAS# Designation:	1303-96-4 Sodium tetraborate decahydrate
Identification number(s): EC number:	215-540-4
Index number:	005-011-01-1
SECTION 4: First aid measures	
4.1 Description of first aid measures After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms
	persist. Seek immediate medical advice.
After skin contact	Instantly wash with water and soap and rinse thoroughly.
After eye contact	Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing 4.2 Most important symptoms and effects,	Seek medical treatment.
both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed	No further relevant information available.
	No further relevant information available.
SECTION 5: Firefighting measures	
5.1 Extinguishing media Suitable extinguishing agents	Product is not flammable. Use fire fighting measures that suit the surrounding fire.
5.2 Special hazards arising from the substance or mixture	If this product is involved in a fire, the following can be released:
	Sodium oxide Boron oxide
5.3 Advice for firefighters Protective equipment:	Wear self-contained breathing apparatus.
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de name Sodium tetraborate decahydrate Wear full protective suit. (Contre de per SCTION 6: Accidental roles and survey. 5:1 Personal precations. protective supportent and emprenery protective components and emprenery components compo		trahorato docahud	Irate	
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	6.2 Environmental pre	Cautions:	Do not allow product to reach sewage system or water bodies.	i.
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Trade name Sodium tetraborate decahyd	rate
	(Contd. of page 2)
Steam pressure at 20 °C: Density at 20 °C Relative density Vapour density	0 hPa 1,73 g/cm ³ Not determined. Not applicable.
Evaporation rate Solubility in / Miscibility with Water at 20 °C: Partition coefficient (n-octanol/water):	Not applicable. 51,4 g/l Not determined.
Viscosity: dynamic: kinematic:	Not applicable. Not applicable.
9.2 Other information	No further relevant information available.
SECTION 10: Stability and reactivity	
10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be	No information known. Stable under recommended storage conditions.
avoided: 10.3 Possibility of hazardous reactions 10.5 Incompatible materials:	No decomposition if used and stored according to specifications. Reacts with strong oxidizing agents Oxidising agents
10.6 Hazardous decomposition products:	Reducing agents Boron oxide Sodium oxide
SECTION 11: Toxicological information	
11.1 Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classific	The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.
Oral LD50 2660 mg/kg (rat)	
Skin irritation or corrosion: Eye irritation or corrosion: Sensitization: Germ cell mutagenicity:	May cause irritation May cause irritation No sensitizing effect known. The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.
Carcinogenicity: Reproductive toxicity:	EPA-I: Data are inadequate for an assessment of human carcinogenic potential. May damage fertility or the unborn child. The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.
Specific target organ system toxicity - repeated exposure: Specific target organ system toxicity - single	No effects known.
exposure: Aspiration hazard: Subacute to chronic toxicity:	No effects known. No effects known. The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
SECTION 12: Ecological information	
12.1 Toxicity Aquatic toxicity: 12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil Additional ecological information: General notes:	No further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available.
	Do not allow material to be released to the environment without proper governmental permits. Water hazard class 1 (Assessment by list): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Avoid transfer into the environment.
12.5 Results of PBT and vPvB assessment PBT: vPvB: 12.6 Other adverse effects	Not applicable. Not applicable. No further relevant information available.
SECTION 13: Disposal considerations	
13.1 Waste treatment methods Recommendation	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.
SECTION 14: Transport information	
UN-Number ADR, ADN, IMDG, IATA	Not applicable
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Not applicable
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA Class	Not applicable
Packing group ADR, IMDG, IATA	Not applicable
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II Code	of MARPOL/3//8 and the IBC Not applicable.
UN "Model Regulation":	
	- DE (Contd on page 4)

(Contd. on page 4)

Trade name Sodium tetraborate decahydrate

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	(Contd. of page 3)		
SECTION 15: Regulatory information			
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical			
Substances	Substance is listed.		
Standard for the Uniform Scheduling of Medicines and Poisons National regulations Information about limitation of use:	Substance is not listed.		
	Employment restrictions concerning young persons must be observed. Employment restrictions concerning women of child-bearing age must be observed. For use only by technically qualified individuals.		
Water hazard class: Other regulations, limitations and prohibitiv	Water hazard class 1 (Assessment by list): slightly hazardous for water. e regulations		
ELINCS (European List of Notified Chemical Substances) Substance of Very High Concern (SVHC)	Substance is not listed.		
according to the ŘEAČH Regulations (EĆ) No. 1907/2006.	This substance is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH).		
REACH - Pre-registered substances 15.2 Chemical safety assessment:	Substance is listed. A Chemical Safety Assessment has not been carried out.		
SECTION 16: Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.			
Department issuing SDS: Abbreviations and acronyms:	Health, Safety and Environmental Department. RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Negulations by the "International Air Transport Association" (IATA) ICAC: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LCS0: Lethal concernation, 50 percent UPS0: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Cocupational Satety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency (USA) Repr. 1B: Reproductive toxicity, Hazard Category 1B		