		according to 1907/2006/EC, Article 31		
Prii	nting date 01.07.2013	Rev	sion: 05.10.2012	
SECTION 1: Identification of the substance/mixture and of the company/undertaking				
	1.1 Product identifier Trade name Stock number: CAS Number: EC number: 1.2 Relevant identified uses of the substance Identified use:	Sodium molybdenum oxide dihydrate 12214 10102-40-6 231-551-7		
	1.3 Details of the supplier of the safety data s			
	Manufacturer/Supplier: Informing department: 1.4 Emergency telephone number:	Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Zeppelinstr. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com www.alfa.com 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 mixture Classification according to Regulation (EC) No 1272/2008 Classification according to Directive 67/548/ EEC or Directive 1999/45/EC	The substance is not classified as hazardous to health or the environment according to the CLI Not applicable	Pregulation.	
	Information concerning particular hazards for human and environment:			
	Other hazards that do not result in	Not applicable		
	Signal word Hazard statements 2.3 Other hazards Results of PBT and vPvB assessment PBT:	No information known. Not applicable Not applicable Not applicable Not applicable		
	VFVB.	Not applicable.		
	SECTION 3: Composition/information or 3.1 Substances CAS# Designation: Identification number(s): EC number:	n <i>ingredients</i> 10102-40-6 Sodium molybdenum oxide dihydrate 231-551-7		
	SECTION 4: First aid measures			
	4.1 Description of first aid measures	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if s persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.	ymptoms	
	After eye contact After swallowing	Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment.		
	4.2 Most important symptoms and effects, both acute and delayed	No further relevant information available.		
	4.3 Indication of any immediate medical attention and special treatment needed	No further relevant information available.		
	-			
	SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters Protective equipment:	Use fire fighting measures that suit the environment. If this product is involved in a fire, the following can be released: Sodium oxide Metal oxide Wear self-contained breathing apparatus.		
		Wear full protective suit.		
		Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.		
	6.3 Methods and material for containment and cleaning up: Prevention of secondary hazards: 6.4 Reference to other sections	Collect mechanically. No special measures required. See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.		
	SECTION 7: Handling and storage 7.1 Precautions for safe handling	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.		
	Information about protection against			
	explosions and fires:	The product is not flammable	(Contd. on page 2)	
			DE/E	

## Safety data sheet according to 1907/2006/EC, Article 31

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nting date 01.07.2013	Revision: 05.10.20
ide name Sodium molybdenum oxide	dihydrate
7.2 Conditions for safe storage, including ar	(Contd. of page
Storage Requirements to be met by storerooms and	
containers:	No special requirements.
Information about storage in one common storage facility:	Store away from oxidizing agents.
Further information about storage conditions:	Keep container tightly sealed.
7.3 Specific end use(s)	Store in cool, dry conditions in well sealed containers. No further relevant information available.
SECTION 8: Exposure controls/person	al protection
Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face veloc of at least 100 feet per minute.
8.1 Control parameters Components with critical values that require	Δ.
monitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monitore
Additional information:	at the workplace. No data
8.2 Exposure controls	
Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals.
	Keep away from foodstuffs, beverages and food.
	Wash hands during breaks and at the end of the work.
Breathing equipment:	Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations.
Protection of hands:	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
AA	and varies from anufacturer to manufacturer.
Material of gloves Penetration time of glove material	Not determined
Eye protection: Body protection:	Safety glasses Protective work clothing.
SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi	
General Information	
Appearance: Form:	Various forms (powder/flake/crystalline/beads, etc.)
Colour: Smell:	White Odourless
Odour threshold:	Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range:	100 °C (anhyd)
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature (start)	Not determined Not determined
Sublimation temperature / start: Inflammability (solid, gaseous)	Not determined.
Ignition temperature: Decomposition temperature:	Not determined Not determined
Self-inflammability:	Not determined.
Critical values for explosion: Lower:	Not determined
Upper: Steam pressure:	Not determined Not applicable.
Density at 20 °C	2,71 g/cm <sup>3</sup> Not determined.
Relative density Vapour density	Not determined. Not applicable.
Evaporation rate Solubility in / Miscibility with	Not applicable.
Water at 20 °C:	840 g/l
Partition coefficient (n-octanol/water): Viscosity:	Not determined.
dynamic: kinematic:	Not applicable. Not applicable.
9.2 Other information	No further relevant information available.
SECTION 10: Stability and reactivity	
10.1 Reactivity	No information known.
10.2 Chemical stability	Stable under recommended storage conditions.
Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions 10.5 Incompatible materials:	Reacts with strong oxidizing agents Oxidizing agents
10.6 Hazardous decomposition products:	Sodium oxide Metal oxide
SECTION 11, Tavianianiani information	·
SECTION 11: Toxicological information	1
SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute toxicity:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components
11.1 Information on toxicological effects Acute toxicity:	
11.1 Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components this product. No data
11.1 Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: Skin irritation or corrosion: Eye irritation or corrosion:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components this product. No data May cause irritation May cause irritation
11.1 Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: Skin irritation or corrosion: Eye irritation or corrosion: Sensitization:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components i this product. No data May cause irritation May cause irritation No sensitizing effect known.
11.1 Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: Skin irritation or corrosion: Eye irritation or corrosion:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components i this product. No data May cause irritation May cause irritation

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Trade name Sodium molybdenum oxide dihydrate				
Reproductive toxicity:	(Contd. of page 2) The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for components in this product.			
Specific target organ system toxicity - repeated exposure:	No effects known.			
Specific target organ system toxicity - single exposure:	No effects known.			
Aspiration hazard: Additional toxicological information:	No effects known. 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				
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 (Self-assessment): 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 14.7 Transport in bulk according to Annex II	Not applicable.			
Code	Not applicable.			
UN "Model Regulation":	-			
SECTION 15: Regulatory information				
Australian Inventory of Chemical	tions/legislation specific for the substance or mixture			
Substances Standard for the Uniform Scheduling of	Substance is listed.			
Drugs and Poisons National regulations	Substance is not listed.			
Information about limitation of use: Water hazard class:	For use only by technically qualified individuals. Water hazard class 1 (Self-assessment): slightly hazardous for water.			
Other regulations, limitations and prohibitive ELINCS (European List of Notified Chemical				
Substances) Substances of very high concern (SVHC)	Substance is not listed.			
according to REACH, Article 57 REACH - Pre-registered substances	Substance is not listed.			
15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.			
this information to ensure proper use and protec not in conformance with this Material Safety Dat	supplement to other information gathered by them, and should make independent judgement of suitability of the health and safety of employees. This information is furnished without warranty, and any use of the product a Sheet, or in combination with any other product or process, is the responsibility of the user.			
Department issuing data specification sheet: Abbreviations and acronyms:	Health, Safety and Environmental Department. 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent			
	LD50: Lethal dose, 50 percent DE/E			