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1 Identification of substance	
Product details	
Trade name	Methylmercury(II) chloride, standard solution in water, Methylmercury(II) chloride
Stock number:	33553
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3 E-mail: gcat@matthey.com
	Benzstrasse 3 E-mail: gcat@matthey.com D-76185 Karlsruhe / Germany www.alfa-chemcat.com
Informing department: Emergency information:	Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240
2 Hazards identification	
Hazard designation:	T+ Very toxic
	N Dangerous for the environment
Information pertaining to particular dangers for man and environment	R 26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
	R 33 Danger of cumulative effects. R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
GHS label elements	Danger
	H300 - Fatal if swallowed.
	H310 - Fatal in contact with skin. H330 - Fatal if inhaled.
	Warning
	H373 - May cause damage to organs through prolonged or repeated exposure.
	Warning
	H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects.
Prevention:	H410 - Very toxic to aquatic life with long lasting effects. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Response:	P320 Specific treatment is urgent (see on this label).
Storage:	P361 Remove/Take off immediately all contaminated clothing. P405 Store locked up.
Disposal:	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
3 Composition/information on ingredients	S
Chemical characterization: Designation: (CAS#)	Methylmercury(II) chloride (CAS# 115-09-3), 0.10% Water (CAS# 7732-18-5), 99.9%
Identification number(s): EINECS Number:	204-064-2
Index number:	080-004-00-7
4 First aid measures	Quark freek sin If serviced and ide attiticial servicetion. Keen actions where Consult destractions result to
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. Seek immediate medical advice.
After eye contact After swallowing	Rinse opened eye for several minutes under running water. Then consult doctor. Seek immediate medical advice.
5 Fire fighting measures	
Suitable extinguishing agents Special hazards caused by the material, its	Use fire fighting measures that suit the environment.
products of combustion or flue gases:	Can be released in case of fire: Toxic metal oxide smoke
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.
6 Accidental release measures	
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
Measures for environmental protection: Measures for cleaning/collecting:	Do not allow material to be released to the environment without proper governmental permits. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
-	Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.
Additional information:	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.
7 Handling and storage	
Handling	Keep containers tightly cooled
Information for safe handling:	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires:	The product is not flammable
Storage Requirements to be met by storerooms and	
containers: Information about storage in one common	No special requirements.
storage facility: Further information about storage	Do not store together with acids.
conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.
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8 Exposure controls and personal protec Additional information about design of technical systems:	<i>tion</i> Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Components with critical values that require monitoring at the workplace:	
	methyl mercury, as Hg
	MCGIH TLV 0.01; 0.03-STEL (skin)
	Austria MAK 0.05 Belgium TWA 0.01 (skin)
	Denmark TWA 0.05 (skin) Finland TWA 0.05 (skin)
	France VME 0.05 (skin) Germany MAK 0.01
	Japan OEL 0.05
	Netherlands MAC-TGG 0.05
	Norway TWA 0.05 Sweden NGV 0.05 (vapor) United Kinadom TWA 0.025
	United Kingdom TWA 0.025 (USA PEL 0.01 (skin)
Additional information:	No data
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. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.
	Avoid contact with the eyes and skin.
Breathing equipment: Eye protection:	Use breathing protection with high concentrations. Safety glasses
Eye protection: Body protection:	Sarety glasses Protective work clothing.
9 Physical and chemical properties:	
General Information	
Form: Colour:	Liquid Clear
Smell:	Not determined
Change in condition Melting point/Melting range:	Not determined
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined
Flash point:	Not applicable
Ignition temperature:	Not determined Not determined
Decomposition temperature:	Not determined
Danger of explosion:	Product is not explosive.
Critical values for explosion: Lower:	Not determined
Upper:	Not determined
Steam pressure: Density	Not determined Not determined
Solubility in / Miscibility with	
Water:	Fully miscible
10 Stability and reactivity	
Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.
Materials to be avoided:	Acids Acutes Acutes and solved according to specifications.
Dangerous reactions:	chemicals.
Dangerous reactions:	Reacts with alkaline metals Reacts with alkaline earth metals
Dangerous products of decomposition:	Carbon monoxide Hydrogen chloride (HCI)
	Toxic metal oxide smoké Mercury and organic compounds containing mercury
11 Toxicological information	
Acute toxicity:	
Primary irritant effect: on the skin:	Irritant for skin and mucous membranes.
on the eye: Sensitization:	Irritant offset. No sensitizing effect known.
Other information (about experimental	
toxicology):	Mutagenic effects have been observed on tests with laboratory animals. Mutagenic effects have been observed on tests with bacteria. Reproductive effects have been observed on tests with laboratory animals
	Reproductive effects have been observed on tests with laboratory animals. Tumorigenic effects have been observed on tests with laboratory animals.
Additional toxicological information:	Carcinogenic effects have been observed on tests with laboratory animals. Danger by skin resorption.
	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. IARC-2B: Possibly carcinogenic to humans: limited evidence in humans in the absence of sufficient evidence in
	experimental animals. The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or
	neoplastic data for this product.

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12 Ecological information:	
Ecotoxical effects: Remark:	Very toxic for fish
Additional ecological information: General notes:	
General notes:	Water danger class 3 (Self-assessment): extremely hazardous for water. Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.
	Danger to drinking water if even extremely small quantities leak into soil. Also poisonous for fish and plankton in water bodies.
	Do not allow material to be released to the environment without proper governmental permits. Very toxic for aquatic organisms
13 Disposal considerations	
Product:	
Recommendation	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste
Uncleaned packagings:	Must be specially treated under adherence to official regulations.
Recommendation: Recommended cleaning agent:	Disposal must be made according to official regulations. Water, if necessary with cleaning agent.
14 Transport information Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)
ADR/RID-GGVS/E Class:	6.1 (T4) Toxic substances.
Kemler Number: UN-Number:	60 2024
Packaging group: Label	ll 6.1
Special marking: Designation of goods:	Symbol (fish and tree) 2024 MERCURY COMPOUND, LIQUID, N.O.S. (methylmercury(II) chloride solution)
Limited quantities (LQ) Transport category	LQ17 2
Tunnel restriction code Maritime transport IMDG/GGVSea:	D/E
IMDG/GGVSea Class: UN Number:	6.1 2024
Label Packaging group:	6.1 II
Marine pollutant: Segregation groups	No
Correct technical name:	Heavy metals and their salts (including their organometallic compounds), mercury and mercury compounds MERCURY COMPOUND, LIQUID, N.O.S. (methylmercury(II) chloride solution)
Air transport ICAO-TI and IATA-DGR:	
$\langle \rangle$	
ICAO/IATA Class:	6.1
UN/ID Number: Label	2024 6.1
Packaging group: Correct technical name:	II MERCURY COMPOUND, LIQUID, N.O.S. (methylmercury(II) chloride solution)
UN "Model Regulation":	UN2024, MERCURY COMPOUND, LIQUID, N.O.S., 6.1, II
Environmental hazards:	Environmentally hazardous substance, liquid; Marine Pollutant
15 Regulatory information	
Designation according to EC guidelines:	
Code letter and hazard designation of product:	T+ Verv toxic
	N Dangerous for the environment
Risk phrases:	26/27/28 Very toxic by inhalation, in contact with skin and if swallowed. 33 Danger of cumulative effects.
	50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases:	13 Keep away from food, drink and animal feedingstuffs. 28 After contact with skin, wash immediately with plenty of water.
	36 Wear suitable protective clothing. 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 60 This material and its container must be disposed of as hazardous waste.
	60 This material and its container must be disposed of as hazardous waste. 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
National regulations	
Information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.
Water hazard class:	Water danger class 3 (Self-assessment): extremely hazardous for water.
16 Other information:	
Employers should use this information only as a information to ensure proper use and protect the	a supplement to other information gathered by them, and should make independent judgement of suitability of this e health and safety of employees. This information is furnished without warranty, and any use of the product not in set, or in combination with any other product or process, is the responsibility of the user.
	eet, or in combination with any other product or process, is the responsibility of the user. It: Health, Safety and Environmental Department.
Contact:	Zachariah Holt

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Trade name Methylmercury(II) chloride, standard solution in water, Methylmercury(II) chloride 1000 ppm (Contd. of page 3) Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Carriage of Dangerous Goods by Rail) IMDE: International Auritime Code for Dangerous Goods IMTA: International Maritime Code for Dangerous Goods ATA: International Air Transport Association IATA: International Air Transport Association" (IATA) ICAO: International Air Transport Association ICAO: International Civil Aviation Organization" (ICAO) ICAO: The control Civil Aviation Organization ICAO: Second 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)