Printing date 13.07.2010	Revision: 13.07.2010
1 Identification of substance	
Product details	
Trade name	Diphenylmercury
Stock number:	37119
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG
	Benzstrasse 3 E-mail: gcat@matthey.com D-76185 Karlsruhe / Germany www.alfa-chemcat.com
Informing department:	Product safety department.
Emergency information:	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 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 aguatic organisms, may cause long-term adverse effects in the aguatic 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.
	<b>Warning</b>
<b>-</b>	H400 - Very toxic to aquatic life. 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.
Prevention: Response:	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	P320 Specific treatment is urgent (see on this laber).
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 ingredient	S
Chemical characterization:	
Designation: (CAS#)	Diphenylmercury (CAS# 587-85-9), 100%
Identification number(s): EINECS Number:	209-606-1
Index number:	080-004-00-7
4 First aid measures	
General information	Instantly remove any clothing soiled by the product.
	Remove breathing apparatus only after soiled clothing has been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
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	Do not induce vomiting; instantly call for medical help.
	Seek immediate medičal advice.
5 Fire fighting measures	
Suitable extinguishing agents Special hazards caused by the material, its	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
Special hazards caused by the material, its products of combustion or flue gases:	Can be released in case of fire:
p	Carbon monoxide and carbon dioxide
Protective equipment:	Toxic metal oxide smoke Wear self-contained breathing apparatus.
-	Wear full protective suit.
6 Accidental release measures	
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection:	Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting:	Dispose of contaminated material as waste according to item 13.
Additional information:	Ensure adequate ventilation. 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 Information for safe handling:	Keep containers tightly sealed.
omation for sale nationity.	Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.
	Ensure good ventilation/exhaustion at the workplace. Open and handle container with care.
Information about protection against	· · · · · · · · · · · · · · · · · · ·
explosions and fires:	Keep ignition sources away - Do not smoke.
Storage Requirements to be met by storerooms and	
containers: Information about storage in one common	No special requirements.
storage facility:	Store away from oxidizing agents.
Further information about storage conditions:	Keep container tightly sealed.
	(Contd. on page 2)

Safety Data Sheet according to 1907/2006/EC, Article 31

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rade name <i>DiphenyImercury</i>	
	Store in cool, dry conditions in well sealed containers. Store in a locked cabinet or with access restricted to technical experts or their assistants.
8 Exposure controls and personal protect	ction
Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of a least 100 feet per minute.
Components with critical values that require	
monitoring at the workplace:	mercury, aryl compounds, as Hg
Additional information:	mg/m3           ACGIH TLV         0.1           Belgium TWA         0.1 (skin)           Finland TWA         0.05           France TWA         0.1 (skin)           Germany MAK         0.01           Hungary TWA         0.02; 0.04-STEL           Netherlands TWA         0.05           Sweden TWA         0.05           Switzerland TWA         0.01 (skin)           United Kingdom TWA         0.025           USA PEL         0.1-STEL           No data         0.1
Personal protective equipment	
General protective and hygienic measures Breathing equipment: Eye protection:	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. Store protective clothing separately. Avoid contact with the eyes and skin. Use breathing protection with high concentrations. Safety glasses
Body protection:	Protective work clothing.
9 Physical and chemical properties:	
General Information	
Form: Colour: Smell:	Crystalline White Not determined
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	124-125°C >306°C ((dec)) Not determined
Flash point:	Not applicable
Ignition temperature: Decomposition temperature:	Not determined Not determined
Danger of explosion:	Product is not explosive.
Critical values for explosion: Lower: Upper:	Not determined Not determined
Steam pressure at 204°C:	13.3 hPa
Density at 20°C	2.318 g/cm <sup>3</sup>
Solubility in / Miscibility with Water:	Insoluble
0 Stability and reactivity	
Thermal decomposition / conditions to be avoided: Materials to be avoided: Dangerous reactions: Dangerous products of decomposition:	No decomposition if used and stored according to specifications. Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide Toxic metal oxide smoke
11 Toxicological information Acute toxicity:	
LD/LC50 values that are relevant for classifi	cation:
Oral LDLo 500 mg/kg (rat) Primary irritant effect:	
on the skin: on the eye:	Irritant for skin and mucous membranes. Irritant effect.
Sensitization: Additional toxicological information:	No sensitizing effect known. Danger by skin resorption. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
2 Ecological information:	
Ecotoxical effects: Remark:	Very toxic for fish
Additional ecological information: 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
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Trade name DiphenyImercury		
13 Disposal considerations	(Contd. of page 2)	
Product:		
Recommendation	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.	
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.	
14 Transport information		
Land transport ADR/RID and GGVS/GGVE (c	ross-border/domestic)	
ADR/RID-GGVS/E Class:	6.1 (T3) Toxic substances.	
Kemler Number: UN-Number:	60 2026	
Packaging group:		
Label Special marking:	6.1 Symbol (fish and tree)	
Special marking: Designation of goods: Limited quantities (LQ)	2026 PHENYLMERCURIC COMPOUND, N.O.S. (Diphenylmercury)	
Transport category	2	
Tunnel restriction code	D/E	
Maritime transport IMDG/GGVSea:		
$\langle \rangle$		
IMDG/GGVSea Class:	6.1	
UN Number: Label	2026 6.1	
Packaging group: Marine pollutant:	o.i II	
Marine pollutant: Segregation groups	No Heavy metals and their salts (including their organometallic compounds), mercury and mercury compounds	
Correct technical name:	Heavy metals and their salts (including their organometallic compounds), mercury and mercury compounds PHENYLMERCURIC COMPOUND, N.O.S.	
Air transport ICAO-TI and IATA-DGR:		
	6.1	
UN/ID Number: Label	2026 6.1	
Packaging group: Correct technical name:	II PHENYLMERCURIC COMPOUND. N.O.S.	
UN "Model Regulation":		
Environmental hazards:	UN2026, PHENYLMERCURIC COMPOUND, N.O.S., 6.1, II Environmentally hazardous substance, solid; Marine Pollutant	
15 Regulatory information		
Designation according to EC guidelines:		
Code letter and hazard designation of product:	T+ Very toxic N Dangerous for the environment	
Dick phrases		
Risk phrases:	<ul> <li>26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.</li> <li>Danger of cumulative effects.</li> <li>50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> </ul>	
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.	
	61 Avoid release to the environment. Refer to special instructions/safety data sheets.	
National regulations		
Information about limitation of use:	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.	
Water hazard class:	Water danger class 3 (Self-assessment): extremely hazardous for water.	
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 data specification sheet:	Health, Safety and Environmental Department.	
Contact:	Zachariah Holt ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of	
Abbreviations and acronyms:	Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International	
	Transport of Dangerous Goods by Rail) IMDC: International Maritime Code for Dangerous Goods	
	IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)	
	ICAO. International CMI Awation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labellion of Chemicals	
	EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)	
	Zachariah Hôlt ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDE: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: International Civil Avaiton Organization ICAO: International Vill Avaiton Organization ICAO: Thermational Ivil Avaiton Organization ICAO: Thermational Civil Avaiton Organization ICAO: Thermational Ivil Avaiton Organization ICAO: Thermational Service (division of Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LCS0: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	
	GB	