

MERCURY > 99,99%

Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Identification of the substance	MERCURY > 99,99%
Registration number (REACH)	01-2119548380-42-xxxx
EC number	231-106-7
Index number in CLP Annex VI	080-001-00-0
CAS number	7439-97-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Professional use, industrial use manufacture of basic metals, including alloys Industrial use resulting in manufacture of another substance (use of intermediates) Manufacture of substances Formulation in materials Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing) Wide dispersive indoor use resulting in inclusion into or onto a matrix Cosmetics, personal care products, (amalgam, dental care) Machinery, mechanical appliances, electrical/electronic articles Use in measuring devices (restricted via REACH annex XVII)
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1.3 Details of the supplier of the safety data sheet

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Nijverheidsweg 26
3899 AH Zeewolde
Netherlands

Telephone: Tel. +31 (0)36 - 522 2800
Fax: +31 (0)36 - 522 2564
e-mail: info@mrclaushuis.com
Website: www.mrclaushuis.com

1.4 Emergency telephone number

Poison centre		
Country	Name	Telephone
United Kingdom	National Poisons Information Service (NPIS) (medical professionals only)	0344-8920111
United Kingdom	NHS (general public)	non-emergency: 111 or a doctor; emergency: 999

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.11	acute toxicity (inhal.)	2	Acute Tox. 2	H330
3.7	reproductive toxicity	1B	Repr. 1B	H360D
3.9	specific target organ toxicity - repeated exposure	1	STOT RE 1	H372
4.1A	hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

MERCURY > 99,99%

Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

Classification	Hazard(s) (H)	Category	Hazard phrase and category	Hazard statement
4.1C	hazardous to the aquatic environment - chronic hazard	1	Aquatic Chronic 1	H410

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. Spillage and fire water can cause pollution of watercourses.

Additional information

There is no additional information.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP) Labelling:

- signal word danger

- pictograms

GHS06, GHS08,
GHS09

- hazard statements

H330 Fatal if inhaled.
H360D May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

- precautionary statements

P201 Obtain special instructions before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P284 [In case of inadequate ventilation] wear respiratory protection.
P304+P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER/doctor.
P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance	MERCURY > 99,99%
Identifiers	
REACH Reg. No	01-2119548380-42-xxxx
CAS No	7439-97-6
EC No	231-106-7
Index No	080-001-00-0
Molecular formula	Hg
Molar mass	200.6 g/mol

MERCURY > 99,99%

Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. Remove breathing apparatus only after contaminated clothing has been completely removed. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

Fatal if inhaled. Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Give nothing to eat or drink. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

Immediate effects can be expected after short-term exposure. Chronic effects can be expected from short or long-term exposure. Fever. Headache. Gastrointestinal complaints. Adverse effects on pregnancy outcomes. Cough. Shortness of breath. Pneumonia. Fatal if inhaled. Irreversible damage to nerve system Fatality.

4.3 Indication of any immediate medical attention and special treatment needed

Administer antidote: d-Penicillamine (chelating agent) by qualified medical personnel.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray. Water mist. BC-powder. Carbon dioxide (CO2). Sand.

Unsuitable extinguishing media

None.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

During fire hazardous fumes/smoke could be produced: Mercury

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

MERCURY > 99,99%

Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Follow emergency procedures such as the need to evacuate the danger area or to consult an expert. Warning and evacuating people in the neighbourhood. Ventilate affected area. Do not breathe vapour. Do not breathe fumes.

For emergency responders

Warning and evacuating people in the neighbourhood. Wear breathing apparatus if exposed to vapours/dust/spray/gases. Chemical protection suit.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Covering of drains. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Collect spillage. Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas. Personal protective equipment: see section 8. Opening of packaging only with local exhaust ventilation.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

- ventilation requirements

When not in use, keep containers tightly closed. Keep in a cool, well-ventilated place.

- packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

MERCURY > 99,99%

Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)								
Country	Name of agent	CAS No.	Unit	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Source
EU	mercury	7439-97-6	IOELV		0.02			2009/161/EU
GB	mercury	7439-97-6	WEL		0.02			EH40/2005

Notation

STEL

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

Biological limit values

Biological limit values						
Country	Name of agent	Parameter	Notation	Identifier	Value	Source
GB	mercury	mercury	crea	BMGV	20 µmol/mol	EH40/2005

Notation

crea

creatinine

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs and other threshold levels				
Endpoint	Threshold level	Exposure route	Use in	Exposure time
DNEL	0.02 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	0.004 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
DNEL	7.39 µg/kg	human, oral	consumer (private households)	chronic - systemic effects

Relevant PNECs and other threshold levels				
Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
PNEC	0.057 µg/l	aquatic organisms	freshwater	short-term (single instance)
PNEC	0.067 µg/l	aquatic organisms	marine water	short-term (single instance)
PNEC	2.25 µg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
PNEC	9.3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
PNEC	9.3 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
PNEC	22 µg/kg	terrestrial organisms	soil	short-term (single instance)

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

MERCURY > 99,99%

Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection. (NEN-EN 166).

Skin protection

Protective clothing (EN 340).

- hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- type of material

PVC: polyvinyl chloride, NR: natural rubber, latex, IIR: isobutene-isoprene (butyl) rubber

- material thickness

≥ 0,4 mm

- breakthrough times of the glove material

>480 minutes (permeation: level 6)

- other protection measures

Wash hands thoroughly after handling. Take off contaminated clothing.

Respiratory protection

Do not breathe dust/fume/gas/mist/vapours/spray. In case of inadequate ventilation wear respiratory protection. Type: Hg-P3 (combined filters against mercury vapour and particles, colour code: Red/White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	metallic
Odour	odourless

Other safety parameters

pH (value)	not determined
Melting point/freezing point	-38.87 °C at 1,013 hPa
Initial boiling point and boiling range	356.8 °C at 1,013 hPa
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined

MERCURY > 99,99%Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

Vapour pressure	0.003 hPa at 25 °C
Density	13.53 g/cm ³ at 25 °C
Vapour density	this information is not available
Solubility(ies)	
- water solubility	0 mg/l at 25 °C
Partition coefficient	
- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	not determined
Viscosity	
- dynamic viscosity	1.55 mPa s at 20 °C
Explosive properties	none
Oxidising properties	none

SECTION 10: Stability and reactivity**10.1 Reactivity**

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.4 Conditions to avoid

May be corrosive to metals.

10.5 Incompatible materialsStrong oxidisers, Halogens, Amines, Ammonia (NH₃), Metallic, Acids, Carbides**10.6 Hazardous decomposition products**

Hazardous combustion products: see section 5.

MERCURY > 99,99%Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Classification according to GHS (1272/2008/EC, CLP)****Acute toxicity**

Fatal if inhaled. May be harmful if inhaled.

Acute toxicity			
Route	Endpoint	Value	Species
oral	LD50	>12.5 mg/kg	rat
oral	LD50	>9.2 mg/kg	rat
inhalation: vapour	LC50	>26.6 mg/m ³ /1h	rat

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

May damage the unborn child.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information**12.1 Toxicity**

Very toxic to aquatic life with long lasting effects.

M-factor: 100.

Aquatic toxicity (acute)			
Endpoint	Value	Species	Exposure time
EC50	<1 mg/l	fish	96 h

Aquatic toxicity (chronic)			
Endpoint	Value	Species	Exposure time
NOEC	1 µg/l	marine organisms	14 d
NOEC	11 µg/l	other organisms	14 d

MERCURY > 99,99%

Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

12.2 Persistence and degradability

Not readily biodegradable.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Other adverse effects

Endocrine disrupting potential

Not listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Recycling/reclamation of other inorganic materials.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

2809

14.2 UN proper shipping name

MERCURY

14.3 Transport hazard class(es)

Class

8 (corrosive substances)

Subsidiary risk(s)

6.1 (acute toxicity)

14.4 Packing group

III (substance presenting low danger)

14.5 Environmental hazards

hazardous to the aquatic environment

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No data available.

Information for each of the UN Model Regulations

MERCURY > 99,99%Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	2809
Proper shipping name	MERCURY
Class	8
Classification code	CT1
Packing group	III
Danger label(s)	8+6.1, fish and tree



Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	365
Excepted quantities (EQ)	E0
Limited quantities (LQ)	5 kg
Transport category (TC)	3
Tunnel restriction code (TRC)	E
Hazard identification No	86
Emergency Action Code	2X

International Maritime Dangerous Goods Code (IMDG)

UN number	2809
Proper shipping name	MERCURY
Class	8
Subsidiary risk(s)	6.1
Marine pollutant	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	8+6.1, fish and tree



Special provisions (SP)	365
Excepted quantities (EQ)	E0
Limited quantities (LQ)	5 kg
EmS	F-A, S-B
Stowage category	B
Segregation group	7 - Heavy metals and their salts 11 - Mercury and mercury compounds

International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	2809
Proper shipping name	Mercury
Class	8
Subsidiary risk(s)	6.1
Environmental hazards	yes (hazardous to the aquatic environment)
Packing group	III

MERCURY > 99,99%

Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

Danger label(s)

8+6.1



Excepted quantities (EQ)

E0

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)			
Name of substance	Name according to inventory	CAS No.	Remarks
MERCURY > 99,99%	mercury	7439-97-6	R18a

Legend

R18a

1. Shall not be placed on the market:

- (a) in fever thermometers;
- (b) in other measuring devices intended for sale to the general public (such as manometers, barometers, sphygmomanometers, thermometers other than fever thermometers).

2. The restriction in paragraph 1 shall not apply to measuring devices that were in use in the Community before 3 April 2009. However Member States may restrict or prohibit the placing on the market of such measuring devices.

3. The restriction in paragraph 1(b) shall not apply to:

- (a) measuring devices more than 50 years old on 3 October 2007;
- (b) barometers (except barometers within point (a)) until 3 October 2009.

4. By 3 October 2009 the Commission shall carry out a review of the availability of reliable safer alternatives that are technically and economically feasible for mercury containing sphygmomanometers and other measuring devices in healthcare and in other professional and industrial uses. On the basis of this review or as soon as new information on reliable safer alternatives for sphygmomanometers and other measuring devices containing mercury becomes available, the Commission shall, if appropriate, present a legislative proposal to extend the restrictions in paragraph 1 to sphygmomanometers and other measuring devices in healthcare and in other professional and industrial uses, so that mercury in measuring devices is phased out whenever technically and economically feasible.

5. The following mercury-containing measuring devices intended for industrial and professional uses shall not be placed on the market after 10 April 2014:

- (a) barometers;
- (b) hygrometers;
- (c) manometers;
- (d) sphygmomanometers;
- (e) strain gauges to be used with plethysmographs;
- (f) tensiometers;
- (g) thermometers and other non-electrical thermometric applications.

The restriction shall also apply to measuring devices under points (a) to (g) which are placed on the market empty if intended to be filled with mercury.

6. The restriction in paragraph 5 shall not apply to:

- (a) sphygmomanometers to be used:
 - (i) in epidemiological studies which are ongoing on 10 October 2012;
 - (ii) as reference standards in clinical validation studies of mercury-free sphygmomanometers;
- (b) thermometers exclusively intended to perform tests according to standards that require the use of mercury thermometers until 10 October 2017;
- (c) mercury triple point cells which are used for the calibration of platinum resistance thermometers.

7. The following mercury-using measuring devices intended for professional and industrial uses shall not be placed on the market after 10 April 2014:

- (a) mercury pycnometers;
- (b) mercury metering devices for determination of the softening point.

8. The restrictions in paragraphs 5 and 7 shall not apply to:

- (a) measuring devices more than 50 years old on 3 October 2007;
- (b) measuring devices which are to be displayed in public exhibitions for cultural and historical purposes.

List of substances subject to authorisation (REACH, Annex XIV)

not listed

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

MERCURY > 99,99%

Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

Seveso Directive

2012/18/EU (Seveso III)			
No.	Hazardous substance-related categories	Qualifying quantity (tonnes) for the application of lower and upper tier requirements	Notes
H2	acute toxic (cat. 2 + cat. 3, inhal.)	50 200	41)

Notation

- 41) - category 2, all exposure routes
- category 3, inhalation exposure route

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

Hazardous substances in electrical and electronic equipment (RoHS)	
Hazardous substance	Maximum concentration values tolerated by weight in homogeneous materials
mercury	0,1 % Hg

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Name of substance	CAS No.	Remarks	Threshold for release to air (kg/year)
MERCURY > 99,99%	7439-97-6	(8)	10

Legend

- (8) All metals shall be reported as the total mass of the element in all chemical forms present in the release

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

Name of substance	CAS No.	Listed in	Remarks
MERCURY > 99,99%	7439-97-6	Annex X	PRIO

Legend

- annex X List of priority substances in the field of water policy

Regulation 98/2013/EU on the marketing and use of explosives precursors

not listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

MERCURY > 99,99%

Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Version number: 7.0. Complete revision of the safety data sheet.

Abbreviations and acronyms

Abbreviations	Definitions of used abbreviations
2009/161/EU	Commission Directive establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	indicative occupational exposure limit value
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
M-factor	means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	short-term exposure limit

MERCURY > 99,99%Version number: GHS 7.0
Replaces version of: 2014.

Revision: 2016-09-06

Abbrev.	Descriptions of used abbreviations
TWA	time-weighted average
vPvB	very Persistent and very Bioaccumulative
WEL	workplace exposure limit

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H330	fatal if inhaled
H360D	may damage the unborn child
H372	causes damage to organs through prolonged or repeated exposure
H400	very toxic to aquatic life
H410	very toxic to aquatic life with long lasting effects

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.