

Creation Date 20-Aug-2014

Revision Date 24-Mar-2017

Revision Number 8

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identification**

| | |
|-----------------------------|---|
| Product Description: | Mercury |
| Cat No. : | M/3750/50, M/3750/53, M/3750/60, M/3750/48 |
| Synonyms | Quicksilver |
| CAS-No | 7439-97-6 |
| EC-No. | 231-106-7 |
| Molecular Formula | Hg |

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

| | |
|-----------------------------|--------------------------|
| Recommended Use | Laboratory chemicals. |
| Uses advised against | No Information available |

1.3. Details of the supplier of the safety data sheet

| | |
|-----------------------|--|
| Company | Fisher Scientific UK Bishop Meadow Road, Loughborough, Leicestershire LE11 5RG, United Kingdom |
| E-mail address | begel.sdsdesk@thermofisher.com |

1.4. Emergency telephone number

Tel: 01509 231166
Chemtrec US: (800) 424-9300
Chemtrec EU: 001 (202) 483-7616

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****CLP Classification - Regulation (EC) No 1272/2008****Physical hazards**

Based on available data, the classification criteria are not met

Health hazards

| | |
|--|---------------------|
| Acute Inhalation Toxicity - Vapors | Category 2 (H330) |
| Reproductive Toxicity | Category 1B (H360D) |
| Specific target organ toxicity - (repeated exposure) | Category 1 (H372) |

Environmental hazards

| | |
|--------------------------|-------------------|
| Acute aquatic toxicity | Category 1 (H400) |
| Chronic aquatic toxicity | Category 1 (H410) |

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2.2. Label elements



Signal Word

Danger

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

- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
- P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
- P310 - Immediately call a POISON CENTER or doctor/ physician
- P273 - Avoid release to the environment

Additional EU labelling

Restricted to professional users

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

| Component | CAS-No | EC-No. | Weight % | CLP Classification - Regulation (EC) No 1272/2008 |
|-----------|-----------|-------------------|----------|---|
| Mercury | 7439-97-6 | EEC No. 231-106-7 | 100 | Acute Tox. 2 (H330) Repr. 1B (H360D) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is

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| | |
|-----------------------------------|--|
| | required. |
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required. |
| Ingestion | Do not induce vomiting. Call a physician or Poison Control Center immediately. |
| Inhalation | Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. |
| Protection of First-aiders | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |

4.2. Most important symptoms and effects, both acute and delayed

Neurological disorders. May cause central nervous system depression: May cause adverse kidney effects: May cause adverse liver effects: Symptoms may be delayed: Chronic exposure damages the brain and the central nervous system

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Very toxic. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products

Mercury oxide, Highly toxic fumes.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

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6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe vapors or spray mist. Do not ingest.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store in metal containers.

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. **UK** - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated by September 2006 official press release and October 2007 Supplement. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

| Component | European Union | The United Kingdom | France | Belgium | Spain |
|-----------|----------------------------------|----------------------------------|--|--|--|
| Mercury | TWA: 0.02 mg/m ³ 8 hr | TWA: 0.02 mg/m ³ 8 hr | TWA / VME: 0.02 mg/m ³ (8 heures). restrictive limit TWA / VME: 0.1 mg/m ³ (8 heures). Peau | TWA: 0.02 mg/m ³ 8 uren Huid | TWA / VLA-ED: 0.02 mg/m ³ (8 horas) |

| Component | Italy | Germany | Portugal | The Netherlands | Finland |
|-----------|--|---|---|------------------------------------|--|
| Mercury | TWA: 0.02 mg/m ³ 8 ore. Media Ponderata nel Tempo Pelle | TWA: 0.02 mg/m ³ (8 Stunden). AGW - exposure factor 8 TWA: 0.02 mg/m ³ (8 Stunden). MAK Höhepunkt: 0.16 mg/m ³ | TWA: 0.02 mg/m ³ 8 horas TWA: 0.025 mg/m ³ 8 horas Pele | TWA: 0.02 mg/m ³ 8 uren | TWA: 0.02 mg/m ³ 8 tunteina lho |

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| Component | Austria | Denmark | Switzerland | Poland | Norway |
|-----------|---|---|---|---|--|
| Mercury | Haut MAK-KZW: 0.08 mg/m ³ 15 Minuten MAK-TMW: 0.02 mg/m ³ 8 Stunden | TWA: 0.02 mg/m ³ 8 timer Hud | Haut/Peau STEL: 0.04 ppm 15 Minuten STEL: 0.4 mg/m ³ 15 Minuten STEL: 0.16 mg/m ³ 15 Minuten TWA: 0.005 ppm 8 Stunden TWA: 0.05 mg/m ³ 8 Stunden TWA: 0.02 mg/m ³ 8 Stunden | TWA: 0.02 mg/m ³ 8 godzinach | TWA: 0.02 mg/m ³ 8 timer STEL: 0.02 mg/m ³ 15 minutter. |
| Component | Bulgaria | Croatia | Ireland | Cyprus | Czech Republic |
| Mercury | TWA: 0.05 mg/m ³ TWA: 0.02 mg/m ³ | TWA-GVI: 0.02 mg/m ³ 8 satima. | TWA: 0.02 mg/m ³ 8 hr. STEL: 0.06 mg/m ³ 15 min | TWA: 0.02 mg/m ³ | TWA: 0.02 mg/m ³ 8 hodinách. Potential for cutaneous absorption Ceiling: 0.15 mg/m ³ |
| Component | Estonia | Gibraltar | Greece | Hungary | Iceland |
| Mercury | Nahk TWA: 0.03 mg/m ³ 8 tundides. fume | TWA: 0.02 mg/m ³ 8 hr during exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the IOELV Hg | TWA: 0.02 mg/m ³ | TWA: 0.02 mg/m ³ 8 órában. AK lehetséges borön keresztül felszívódás | TWA: 0.025 mg/m ³ 8 klukkustundum. Skin notation Ceiling: 0.05 mg/m ³ |
| Component | Latvia | Lithuania | Luxembourg | Malta | Romania |
| Mercury | TWA: 0.02 mg/m ³ | TWA: 0.02 mg/m ³ IPRD | TWA: 0.02 mg/m ³ 8 Stunden | TWA: 0.02 mg/m ³ | TWA: 0.02 mg/m ³ 8 ore |
| Component | Russia | Slovak Republic | Slovenia | Sweden | Turkey |
| Mercury | TWA: 0.005 mg/m ³ 1765 STEL: 0.01 mg/m ³ 1765 | TWA: 0.1 mg/m ³ | TWA: 0.02 mg/m ³ 8 urah | LLV: 0.02 mg/m ³ 8 timmar. inhalable dust | |

Biological limit values

List source(s): **UK** - Biological Monitoring Guidance Values provided by the UK's Health and Safety Executive (HSE) Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended) and EH40/2005.

| Component | European Union | United Kingdom | France | Spain | Germany |
|-----------|----------------|---|--|---|--|
| Mercury | | Mercury: 20 µmol/mol creatinine urine random | Total inorganic Mercury: 0.015 mg/L blood end of shift at end of workweek Total inorganic Mercury: 0.050 mg/g creatinine urine prior to shift | total inorganic mercury: 30 µg/g Creatinine urine pre-shift total inorganic mercury: 10 µg/L blood end of workweek | Mercury: 25 µg/g urine (no restriction measured as µg/g Creatinine) |
| Component | Italy | Finland | Denmark | Bulgaria | Romania |
| Mercury | | Mercury: 140 nmol/L urine morning after the shift. Mercury: 50 nmol/L blood end of workweek. | | Mercury: 100 µg/L urine not fixed metal vapor in elemental state | Mercury: 10 µg/L blood end of shift Mercury: 35 µg/g Creatinine urine beginning of next shift |
| Component | Gibraltar | Latvia | Slovak Republic | Luxembourg | Turkey |
| Mercury | | Mercury: 15 µg/L blood Mercury: 35 µg/g Creatinine urine Mercury: 50 µg/L urine | Mercury: 37.5 µg/L urine not critical Mercury: 15 mg/L blood after all work shifts for long-term exposure | | |

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Monitoring methods

MDHS16/2 Mercury and its inorganic divalent compounds in air Laboratory method using Hydrar diffusive badges or pumped sorbent tubes, acid dissolution and analysis by cold vapour atomic absorption spectrometry or cold vapour atomic fluorescence spectrometry

Derived No Effect Level (DNEL) No information available

| <u>Route of exposure</u> | <u>Acute effects (local)</u> | <u>Acute effects (systemic)</u> | <u>Chronic effects (local)</u> | <u>Chronic effects (systemic)</u> |
|------------------------------|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Oral Dermal Inhalation | | | | 0.02 mg/m ³ |

Predicted No Effect Concentration (PNEC) No information available.

| | |
|---|---------------|
| Fresh water | 0.000057 mg/l |
| Fresh water sediment | 9.3 mg/kg dw |
| Marine water | 0.000067 mg/l |
| Marine water sediment | 9.3 mg/kg dw |
| Microorganisms in sewage treatment | 0.00225 mg/l |

8.2. Exposure controls

Engineering Measures

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Goggles (European standard - EN 166)

Hand Protection Protective gloves

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments |
|-----------------------|--------------------------|------------------------|--------------------|-----------------------|
| Nitrile rubber | > 480 minutes | 0.54mm | Level 6 | (minimum requirement) |
| Natural rubber | > 480 minutes | 0.48mm | EN 374 | |

Skin and body protection Long sleeved clothing

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
Recommended Filter type: Particulates filter conforming to EN 143 or Inorganic gases and vapours filter Type B Grey conforming to EN14387

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Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended half mask:- Particle filtering: EN149:2001
When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | | |
|--|--------------------------|--|
| Appearance | Silver | |
| Physical State | Liquid | |
| Odor | Odorless | |
| Odor Threshold | No data available | |
| pH | Not applicable | |
| Melting Point/Range | -38.9 °C / -38 °F | |
| Softening Point | No data available | |
| Boiling Point/Range | 356.5 °C / 673.7 °F | |
| Flash Point | No information available | Method - No information available |
| Evaporation Rate | No data available | |
| Flammability (solid,gas) | Not applicable | Liquid |
| Explosion Limits | No data available | |
| Vapor Pressure | 0.01 hPa @ 20 °C | |
| Vapor Density | 7.0 | (Air = 1.0) |
| Specific Gravity / Density | 13.540 | |
| Bulk Density | Not applicable | Liquid |
| Water Solubility | Insoluble | |
| Solubility in other solvents | No information available | |
| Partition Coefficient (n-octanol/water) | | |
| Autoignition Temperature | No data available | |
| Decomposition Temperature | No data available | |
| Viscosity | 1.554 cP at 20 °C | |
| Explosive Properties | No information available | |
| Oxidizing Properties | No information available | |

9.2. Other information

| | |
|--------------------------|--------|
| Molecular Formula | Hg |
| Molecular Weight | 200.59 |

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity None known, based on information available

10.2. Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.
Hazardous Reactions None under normal processing.

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10.4. Conditions to avoid

Incompatible products. Excess heat.

10.5. Incompatible materials

Strong oxidizing agents. Ammonia. Metals. Halogens.

10.6. Hazardous decomposition products

Mercury oxide. Highly toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

(a) acute toxicity;

| | |
|------------|-------------------|
| Oral | No data available |
| Dermal | No data available |
| Inhalation | Category 2 |

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

| | |
|-------------|-------------------|
| Respiratory | No data available |
| Skin | No data available |

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Component | EU | UK | Germany | IARC |
|-----------|----|----|---------|------|
| Mercury | | | Cat. 3B | |

(g) reproductive toxicity;
Developmental Effects Category 1B
May cause harm to the unborn child.

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; Category 1
Target Organs Kidney, Liver, Central nervous system (CNS).

(j) aspiration hazard; No data available

Symptoms / effects, both acute and delayed May cause central nervous system depression: May cause adverse kidney effects: May cause adverse liver effects: Symptoms may be delayed: Chronic exposure damages the brain and the central nervous system

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Do not allow material to contaminate ground water system.

| Component | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|-----------|--|---------------------------------------|------------------|----------|
| Mercury | 0.9 mg/L LC50 96h 0.18 mg/L LC50 96h 0.16 mg/L LC50 96h 0.5 mg/L LC50 96h | EC50: = 5.0 µg/L, 96h (water flea) | | |

12.2. Persistence and degradability

The product includes heavy metals. Prevent release into the environment. Special pretreatment required

Persistence

Insoluble in water, May persist.

Degradability

Not relevant for inorganic substances.

Degradation in sewage treatment plant

Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.3. Bioaccumulative potential

Product has a high potential to bioconcentrate

12.4. Mobility in soil

Spillage unlikely to penetrate soil. Is not likely mobile in the environment due its low water solubility.

12.5. Results of PBT and vPvB assessment

No data available for assessment.

12.6. Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

Persistent Organic Pollutant

This product does not contain any known or suspected substance

Ozone Depletion Potential

This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products

Should not be released into the environment. Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point.

European Waste Catalogue (EWC)

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Other Information

Do not dispose of waste into sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not let this chemical enter the environment.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN number

UN2809

14.2. UN proper shipping name

MERCURY

FSUM3750

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14.3. Transport hazard class(es) 8
Subsidiary Hazard Class 6.1
14.4. Packing group III

ADR

14.1. UN number UN2809
14.2. UN proper shipping name MERCURY
14.3. Transport hazard class(es) 8
Subsidiary Hazard Class 6.1
14.4. Packing group III

IATA

14.1. UN number UN2809
14.2. UN proper shipping name MERCURY
14.3. Transport hazard class(es) 8
Subsidiary Hazard Class 6.1
14.4. Packing group III

14.5. Environmental hazards Dangerous for the environment
 Product is a marine pollutant according to the criteria set by IMDG/IMO

14.6. Special precautions for user No special precautions required

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

International Inventories X = listed

| Component | EINECS | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | IECSC | AICS | KECL |
|-----------|-----------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Mercury | 231-106-7 | - | | X | X | - | X | - | X | X | X |

| Component | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|-----------|---|---|---|
| Mercury | | Use restricted. See item 18[a]. (see http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT for restriction details) Use restricted. See item 30. (see http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT for restriction details) | |

National Regulations

| Component | Germany - Water Classification (VwVwS) | Germany - TA-Luft Class |
|-----------|--|--|
| Mercury | WGK 3 | Class I : 0.05 mg/m ³ (Massenkonzentration) |

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| | |
|------------------|--|
| Component | France - INRS (Tables of occupational diseases) |
| Mercury | Tableaux des maladies professionnelles (TMP) - RG 2 |

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Take note of Dir 94/33/EC on the protection of young people at work

Take note of Dir 92/85/EC on the protection of pregnant and breastfeeding women at work

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

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

Legend

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC - Predicted No Effect Concentration

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC - Volatile Organic Compounds

Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

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Revision Summary SDS sections updated, 4, 8, 11.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,

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transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet