

Creation Date Oct-2013

Revision Date Oct-2018

Revision Number 2

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification

| | |
|----------------------|--------------------------|
| Product Description: | Antimony trioxide |
| Product Grade: | SQ |
| Cat No. : | Q21555 |
| Synonyms | Antimony trioxide |
| CAS-No | 1309-64-4 |
| EC-No. | 215-175-0 |
| Molecular Formula | O3 Sb2 |

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

| | |
|--------------------------------|---|
| Recommended Use | Laboratory chemicals. |
| Sector of use | SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites |
| Product category | PC21 - Laboratory chemicals |
| Process categories | PROC15 - Use as a laboratory reagent |
| Environmental release category | ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates) |
| Uses advised against | No Information available |

1.3. Details of the supplier of the safety data sheet

| | |
|----------------|--|
| Company | Thermo Fisher Scientific India Pvt. Ltd 403-404, B-wing, Delphi, Hiranandani Business Park, Powai, Mumbai 400076, INDIA. |
| E-mail address | laboratorysolutions@thermofisher.com |

1.4. Emergency telephone number

India Toll Free: 18 00 22 22 30
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

Carcinogenicity

Category 2 (H351)

Environmental hazards

Based on available data, the classification criteria are not met

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2.2. Label elements



Signal Word

Warning

Hazard Statements

H351 - Suspected of causing cancer

Precautionary Statements

P281 - Use personal protective equipment as required
P273 - Avoid release to the environment
P260 - Do not breathe dust/fume/gas/mist/vapors/spray

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 |
|-------------------|-----------|-------------------|----------|---|
| Lead monoxide | 1317-36-8 | EEC No. 215-267-0 | <0.1 | Acute Tox. 4 (H302) Acute Tox. 4 (H332) Repr. 1A (H360Df) STOT RE 1 (H372) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |
| Arsenic trioxide | 1327-53-3 | EEC No. 215-481-4 | <0.1 | Acute Tox. 2 (H300) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Carc. 1A (H350) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |
| Antimony trioxide | 1309-64-4 | EEC No. 215-175-0 | >95 | Carc. 2 (H351) |

| Component | Reach Registration Number |
|-------------------|---------------------------|
| Antimony trioxide | 01-2119475613-35 |

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

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4.1. Description of first aid measures

| | |
|---|--|
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention. |
| Ingestion | Do not induce vomiting. Obtain medical attention. |
| Inhalation | Move to fresh air. Obtain medical attention. If not breathing, give artificial respiration. |
| Self-Protection of the First Aider | 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

No information available.

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

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Antimony oxide.

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. Avoid dust formation.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Should not be released into the environment. Do not allow material to contaminate ground water system.

6.3. Methods and material for containment and cleaning up

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Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

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. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe dust. Use only under a chemical fume hood.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **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.

| Component | European Union | The United Kingdom | France | Belgium | Spain |
|-------------------|----------------|---|--|---------|--|
| Lead monoxide | | STEL: 0.45 mg/m ³ 15 min TWA: 0.15 mg/m ³ 8 hr | TWA / VME: 0.1 mg/m ³ (8 heures). restrictive limit | | TWA / VLA-ED: 0.15 mg/m ³ (8 horas) |
| Arsenic trioxide | | STEL: 0.3 mg/m ³ 15 min TWA: 0.1 mg/m ³ 8 hr | TWA / VME: 0.2 mg/m ³ (8 heures). | | TWA / VLA-ED: 0.01 mg/m ³ (8 horas) |
| Antimony trioxide | | STEL: 1.5 mg/m ³ 15 min TWA: 0.5 mg/m ³ 8 hr | TWA / VME: 0.5 mg/m ³ (8 heures). | | TWA / VLA-ED: 0.5 mg/m ³ (8 horas) |

| Component | Italy | Germany | Portugal | The Netherlands | Finland |
|-------------------|-------|---------|-------------------------------------|--------------------------------------|---------------------------------------|
| Lead monoxide | | | TWA: 0.05 mg/m ³ 8 horas | | |
| Arsenic trioxide | | Haut | TWA: 0.01 mg/m ³ 8 horas | TWA: 0.0028 mg/m ³ 8 uren | TWA: 0.01 ppm 8 tunteina |
| Antimony trioxide | | | TWA: 0.5 mg/m ³ 8 horas | | TWA: 0.5 mg/m ³ 8 tunteina |

| Component | Austria | Denmark | Switzerland | Poland | Norway |
|------------------|---|---------|--|--------|-------------------------------------|
| Lead monoxide | MAK-KZW: 0.4 mg/m ³ 15 Minuten MAK-TMW: 0.1 mg/m ³ 8 Stunden | | STEL: 0.8 mg/m ³ 15 Minuten TWA: 0.1 mg/m ³ 8 Stunden | | TWA: 0.05 mg/m ³ 8 timer |
| Arsenic trioxide | TRK-KZW: 0.4 mg/m ³ 15 Minuten TRK-TMW: 0.1 mg/m ³ | | Haut/Peau TWA: 0.1 mg/m ³ 8 Stunden | | TWA: 0.01 mg/m ³ 8 timer |

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| | | | | | |
|-------------------|---|--|---|--|------------------------------------|
| Antimony trioxide | TRK-KZW: 1.2 mg/m ³ 15 Minuten TRK-KZW: 0.4 mg/m ³ 15 Minuten TRK-TMW: 0.3 mg/m ³ TRK-TMW: 0.1 mg/m ³ MAK-KZW: 1.5 mg/m ³ 15 Minuten MAK-TMW: 0.5 mg/m ³ 8 Stunden | | TWA: 0.1 mg/m ³ 8 Stunden | | TWA: 0.5 mg/m ³ 8 timer |
|-------------------|---|--|---|--|------------------------------------|

| Component | Bulgaria | Croatia | Ireland | Cyprus | Czech Republic |
|-------------------|-----------------------------|--|---------|--------|---|
| Arsenic trioxide | TWA: 0.05 mg/m ³ | kože TWA-GVI: 0.1 mg/m ³ 8 satima. As | | | |
| Antimony trioxide | | TWA-GVI: 0.5 mg/m ³ 8 satima. Sb | | | TWA: 0.1 mg/m ³ 8 hodinách. Sb Ceiling: 0.2 mg/m ³ Sb |

| Component | Estonia | Gibraltar | Greece | Hungary | Iceland |
|-------------------|---------|-----------|--------|---|---------|
| Arsenic trioxide | | | | Ceiling: 0.1 mg/m ³ MK | |
| Antimony trioxide | | | | STEL: 0.4 mg/m ³ 15 percekben. CK TWA: 0.1 mg/m ³ 8 óraban. AK | |

| Component | Latvia | Lithuania | Luxembourg | Malta | Romania |
|-------------------|--------------------------|-----------|------------|-------|---------|
| Antimony trioxide | TWA: 1 mg/m ³ | | | | |

| Component | Russia | Slovak Republic | Slovenia | Sweden | Turkey |
|-------------------|--------------------------|--|--|--|--------|
| Lead monoxide | | | | LLV: 0.1 mg/m ³ 8 timmar. inhalable dust LLV: 0.05 mg/m ³ 8 timmar. respirable dust | |
| Arsenic trioxide | | TWA: 0.1 mg/m ³ 8 hodinách STEL: 0.5 mg/m ³ 15 minútach | TWA: 0.1 mg/m ³ 8 urah inhalable fraction STEL: 0.4 mg/m ³ 15 minutah inhalable fraction | | |
| Antimony trioxide | MAC: 1 mg/m ³ | TWA: 0.5 mg/m ³ | TWA: 0.3 mg/m ³ 8 urah inhalable fraction TWA: 0.1 mg/m ³ 8 urah inhalable fraction STEL: 1.2 mg/m ³ 15 minutah manufacture inhalable fraction STEL: 0.4 mg/m ³ 15 minutah other inhalable fraction | LLV: 0.25 mg/m ³ 8 timmar. | |

Biological limit values

List source(s):

| Component | European Union | United Kingdom | France | Spain | Germany |
|------------------|----------------|----------------|--|-------|---------|
| Lead monoxide | | | Lead: 400 µg/L blood Lead: 300 µg/L blood Lead: 200 µg/L blood Lead: 100 µg/L blood | | |
| Arsenic trioxide | | | Metabolites of inorganic Arsenic: 0.05 mg/g creatinine urine end of workweek | | |

Monitoring methods

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BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

MDHS 99 Metals in air by ICP-AES

MDHS 91 Metals and metalloids in workplace air by X-ray fluorescence spectrometry

Derived No Effect Level (DNEL) No information available

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

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures

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

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

Safety glasses with side-shields (European standard - EN 166)

Hand Protection

Protective gloves

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments |
|----------------|-----------------------------------|-----------------|-------------|-----------------------|
| Neoprene | See manufacturers recommendations | - | EN 374 | (minimum requirement) |

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

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

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:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141
When RPE is used a face piece Fit Test should be conducted

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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 | White | |
| Physical State | Powder Solid | |
| Odor | Odorless | |
| Odor Threshold | No data available | |
| pH | No information available | |
| Melting Point/Range | 656 °C / 1212.8 °F | |
| Softening Point | No data available | |
| Boiling Point/Range | 1550 °C / 2822 °F | @ 760 mmHg |
| Flash Point | No information available | Method - No information available |
| Evaporation Rate | Not applicable | Solid |
| Flammability (solid,gas) | No information available | |
| Explosion Limits | No data available | |
| Vapor Pressure | 1.3 hPa @ 574 °C | |
| Vapor Density | Not applicable | Solid |
| Specific Gravity / Density | No data available | |
| Bulk Density | No data available | |
| Solubility | Insoluble in water | |
| Solubility in other solvents | No information available | |
| Partition Coefficient (n-octanol/water) | | |
| Component | log Pow | |
| Arsenic trioxide | 18.1 | |
| Autoignition Temperature | Not applicable | |
| Decomposition Temperature | No data available | |
| Viscosity | Not applicable | Solid |
| Explosive Properties | No information available | |
| Oxidizing Properties | No information available | |

9.2. Other information

| | |
|--------------------------|--------|
| Molecular Formula | O3 Sb2 |
| Molecular Weight | 291.42 |

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. |

10.4. Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat.

10.5. Incompatible materials

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Strong acids. Strong bases. Reducing agents. Strong oxidizing agents.

10.6. Hazardous decomposition products

Antimony oxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

(a) acute toxicity;

Oral

Based on available data, the classification criteria are not met

Dermal

Based on available data, the classification criteria are not met

Inhalation

Based on available data, the classification criteria are not met

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-------------------|----------------------------|-------------|-----------------|
| Lead monoxide | LD50 > 10000 mg/kg (Rat) | | |
| Arsenic trioxide | LD50 = 20 mg/kg (Rat) | | |
| Antimony trioxide | LD50 > 34600 mg/kg (Rat) | | |

(b) skin corrosion/irritation;

Based on available data, the classification criteria are not met

(c) serious eye damage/irritation;

Based on available data, the classification criteria are not met

(d) respiratory or skin sensitization;

Respiratory

Based on available data, the classification criteria are not met

Skin

Based on available data, the classification criteria are not met

(e) germ cell mutagenicity;

Based on available data, the classification criteria are not met

(f) carcinogenicity;

Category 2

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

| Component | EU | UK | Germany | IARC |
|-------------------|--------------|----|---------|----------|
| Lead monoxide | | | | Group 2A |
| Arsenic trioxide | Carc Cat. 1A | | Cat. 1 | Group 1 |
| Antimony trioxide | | | | Group 2B |

(g) reproductive toxicity;

Based on available data, the classification criteria are not met

(h) STOT-single exposure;

Based on available data, the classification criteria are not met

(i) STOT-repeated exposure;

Based on available data, the classification criteria are not met

Target Organs

None known.

(j) aspiration hazard;

Not applicable
Solid

Symptoms / effects, both acute and No information available

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delayed

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects

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

| Component | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|-------------------|--|--|---|---|
| Lead monoxide | Pimephales promelas: LC50=0.3 mg/L 96h | EC50=0.13 mg/L 48h | | |
| Arsenic trioxide | LC50: > 1000 mg/L, 96h static (Oncorhynchus mykiss) LC50: 18.8 - 21.4 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: = 135 mg/L, 96h (Pimephales promelas) | EC50 = 0.038 mg/L 24h EC50 = 0.96 mg/L 96h EC50 = 0.038 mg/L 24h | | EC50 = 31.43 mg/L 60 min EC50 = 33.39 mg/L 30 min EC50 = 43.56 mg/L 15 min EC50 = 73.73 mg/L 5 min |
| Antimony trioxide | LC50 >1000 mg/L/96h (Brachydanio rerio) | EC50: > 1000 mg/L, 48h (Daphnia magna) EC50: 361.5 - 496.0 mg/L, 48h Static (Daphnia magna) | EC50: 0.63 - 0.8 mg/L, 72h (Pseudokirchneriella subcapitata) EC50: 0.65 - 0.81 mg/L, 96h (Pseudokirchneriella subcapitata) | EC50 > 3.5 mg/L 7 h |

12.2. Persistence and degradability

Persistence Degradation in sewage treatment plant

The product includes heavy metals. Prevent release into the environment. Special pretreatment required based on information available, May persist, Insoluble in water. Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.3. Bioaccumulative potential

May have some potential to bioaccumulate; Product has a high potential to bioconcentrate

| Component | log Pow | Bioconcentration factor (BCF) |
|------------------|---------|-------------------------------|
| Arsenic trioxide | 18.1 | 80 - 236 |

12.4. Mobility in soil

The product is water soluble, and may spread in water systems Spillage unlikely to penetrate soil Will likely be mobile in the environment due to its water solubility. Is not likely mobile in the environment due its low water solubility. Highly mobile in soils

12.5. Results of PBT and vPvB assessment

No data available for assessment.

12.6. Other adverse effects

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected endocrine disruptors
This product does not contain any known or suspected substance
This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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Waste from Residues / Unused Products

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.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

ADR

Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

IATA

Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

No hazards identified

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 |
|-------------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Lead monoxide | 215-267-0 | - | | X | X | - | X | X | X | X | X |
| Arsenic trioxide | 215-481-4 | - | | X | X | - | X | X | X | X | X |
| Antimony trioxide | 215-175-0 | - | | X | 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) |
|---------------|---|---|---|
| Lead monoxide | | | SVHC Candidate list - Toxic for reproduction (Article 57 c) |

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| | | | |
|------------------|--|--|--|
| Arsenic trioxide | Carcinogenic Category 1A, Article 57 Application date: November 21, 2013 Sunset date: May 21, 2015 Exemption - None | Use restricted. See item 28. (see http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT for restriction details) | SVHC Candidate list - 215-481-4 - Carcinogenic, Article 57a |
|------------------|--|--|--|

| Component | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|------------------|---|--|
| Arsenic trioxide | | 0.1 tonne |

National Regulations

| Component | Germany - Water Classification (VwVwS) | Germany - TA-Luft Class |
|-------------------|--|-------------------------|
| Lead monoxide | WGK 3 | |
| Arsenic trioxide | WGK 3 | |
| Antimony trioxide | WGK 2 WGK 1 | |

| Component | France - INRS (Tables of occupational diseases) |
|-------------------|--|
| Lead monoxide | Tableaux des maladies professionnelles (TMP) - RG 1 |
| Arsenic trioxide | Tableaux des maladies professionnelles (TMP) - RG 20, RG 20bis |
| Antimony trioxide | Tableaux des maladies professionnelles (TMP) - RG 73 |

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

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

H351 - Suspected of causing cancer
H300 - Fatal if swallowed
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H332 - Harmful if inhaled
H350 - May cause cancer
H360Df - May damage the unborn child. Suspected of damaging fertility
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/NDL - 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%

No Observed Effect Concentration

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% **NOEC** -

POW - Partition coefficient Octanol:Water **PBT** -

vPvB - very Persistent, very Bioaccumulative

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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.

Creation Date Oct-2013

Next Revision Date Oct-2023

Revision Summary SDS section 1 updated and update to Format.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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, 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