

according to Regulation (EC) No. 1907/2006

Creation Date 12-Oct-2010 Revision Date 08-Feb-2024 Revision Number 3

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

1.1. Product identifier

Product Description: <u>Aluminum foil</u>

 Cat No. :
 78180

 CAS No
 7429-90-5

 EC No
 231-072-3

 Melecular Formula
 Al

Molecular Formula Al REACH registration number -

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

Thermo Fisher (Kandel) GmbH

Erlenbachweg 2, 76870 Kandel, Germany

Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300

Swiss distributor - Fisher Scientific AG Neuhofstrasse 11, CH 4153 Reinach

Tel: +41 (0) 56 618 41 11

https://www.fishersci.ch/ch/en/customer-help-

support/forms/email-us.html

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

customers in Switzerland:

Tox Info Suisse Emergency Number: 145 (24hr)

Tox Info Suisse: +41-44 251 51 51 (Emergency number from abroad)

Chemtrec (24h) Toll-Free: 0800 564 402 Chemtrec Local: +41-43 508 20 11 (Zurich)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

ALFAA78180

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CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

2.2. Label elements

None required

2.3. Other hazards

In accordance with Annex XIII of the REACH Regulation, inorganic substances do not require assessment

This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

| Component | CAS No | EC No | Weight % | CLP Classification - Regulation (EC) No 1272/2008 |
|-----------|-----------|-------------------|----------|---|
| Aluminum | 7429-90-5 | EEC No. 231-072-3 | 99 | - |

| 112 to 11 to great attion training. | REACH registration number | - |
|-------------------------------------|---------------------------|---|
|-------------------------------------|---------------------------|---|

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

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. Get medical attention

immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

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Self-Protection of the First Aider No special precautions required.

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

None reasonably foreseeable.

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 extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

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

Fumes of aluminum or aluminum 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers 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/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

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 and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

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

Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) (Germany)

Storage Class/LGK 13

Switzerland - Storage of hazardous substances

Storage class - SC 11/13

https://www.kvu.ch/de/themen/stoffe-und-produkte https://www.kvu.ch/fr/themes/substances-et-produits https://www.kvu.ch/it/temi/sostanze-e-prodotti

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 Work Exposure Limits, Forth edition. Published 2020. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority. **CH** The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

| Component | European Union | The United Kingdom | France | Belgium | Spain |
|-----------|----------------|-----------------------------------|-----------------------------------|---------------------------------|-----------------------------------|
| Aluminum | | STEL: 30 mg/m ³ 15 min | TWA / VME: 10 mg/m ³ | TWA: 1 mg/m ³ 8 uren | TWA / VLA-ED: 1 mg/m ³ |
| | | STEL: 12 mg/m ³ 15 min | (8 heures). metal | | (8 horas) |
| | | TWA: 10 mg/m ³ 8 hr | TWA / VME: 5 mg/m ³ (8 | | |
| | | TWA: 4 mg/m ³ 8 hr | heures). | | |

| Component | Italy | Germany | Portugal | The Netherlands | Finland |
|-----------|-------|--------------------------------|----------------------------------|-----------------|---------|
| Aluminum | | TWA: 1.25 mg/m ³ (8 | TWA: 1 mg/m ³ 8 horas | | |
| | | Stunden). AGW - | | | |
| | | exposure factor 2 | | | |
| | | TWA: 10 mg/m ³ (8 | | | |
| | | Stunden). AGW - | | | |
| | | exposure factor 2 | | | |
| | | TWA: 4 mg/m ³ (8 | | | |
| | | Stunden). MAK | | | |
| | | TWA: 1.5 mg/m ³ (8 | | | |
| | | Stunden) MAK | | | |

| Component | Austria | Denmark | Switzerland | Poland | Norway |
|-----------|---------------------------------|----------------------------------|-----------------------------|------------------------------|----------------------------------|
| Aluminum | MAK-KZGW: 20 mg/m ³ | TWA: 5 mg/m ³ 8 timer | TWA: 3 mg/m ³ 8 | TWA: 2.5 mg/m ³ 8 | TWA: 5 mg/m ³ 8 timer |
| | 15 Minuten | TWA: 2 mg/m ³ 8 timer | Stunden | godzinach | STEL: 10 mg/m ³ 15 |
| | MAK-TMW: 10 mg/m ³ 8 | STEL: 10 mg/m ³ 15 | TWA: 10 mg/m ³ 8 | TWA: 1.2 mg/m ³ 8 | minutter. |
| | Stunden | minutter | Stunden | godzinach | pyrotechnical;value |
| | | STEL: 4 mg/m ³ 15 | | | calculated powder |
| | | minutter | | | |

| Component | Bulgaria | Croatia | Ireland | Cyprus | Czech Republic |
|-----------|-----------------------------|---------------------------------|----------------------------------|--------|-------------------------------|
| Aluminum | TWA: 10.0 mg/m ³ | TWA-GVI: 10 mg/m ³ 8 | TWA: 1 mg/m ³ 8 hr. | | TWA: 10.0 mg/m ³ 8 |
| | TWA: 1.5 mg/m ³ | satima. total dust, | respirable fraction | | hodinách. dust |
| | | inhalable particles | STEL: 3 mg/m ³ 15 min | | |
| | | TWA-GVI: 4 mg/m ³ 8 | | | |
| | | satima. respirable dust | | | |

| Component | Estonia | Gibraltar | Greece | Hungary | Iceland |
|-----------|----------|------------|--------|-------------|----------|
| Component | LStoilla | Gibi aitai | GIEECE | i iuliyal y | ICCIAIIU |

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| Aluminum | TWA: 10 mg/m³ 8 tundides. total dust TWA: 4 mg/m³ 8 tundides. respirable dust | TWA: 10 mg/m³ TWA: 5 mg/m³ | TWA: 1 mg/m³ 8 órában. AK | STEL: 10 mg/m³ dust and powder TWA: 5 mg/m³ 8 klukkustundum. dust and powder |
|----------|---|-------------------------------|------------------------------|--|
|----------|---|-------------------------------|------------------------------|--|

| Component | Latvia | Lithuania | Luxembourg | Malta | Romania |
|-----------|--------------|---|------------|-------|---|
| Aluminum | TWA: 2 mg/m³ | TWA: 5 mg/m³ inhalable fraction IPRD TWA: 2 mg/m³ respirable fraction IPRD | | | TWA: 3 mg/m ³ 8 ore TWA: 1 mg/m ³ 8 ore STEL: 10 mg/m ³ 15 minute |
| | | TWA: 1 mg/m³ IPRD | | | STEL: 3 mg/m ³ 15 minute |

| Component | Russia | Slovak Republic | Slovenia | Sweden | Turkey |
|-----------|-------------------------------|----------------------------|----------|------------------------------------|--------|
| Aluminum | TWA: 2 mg/m ³ 0036 | TWA: 4 mg/m ³ | | TLV: 5 mg/m ³ 8 timmar. | |
| | MAC: 6 mg/m ³ | inhalable dust | | NGV | |
| | _ | TWA: 1.5 mg/m ³ | | TLV: 2 mg/m ³ 8 timmar. | |
| | | respirable dust | | NGV | |

Biological limit values

List source(s):

| Component | European Union | United Kingdom | France | Spain | Germany |
|-----------|----------------|----------------|--------|-------|----------------------------|
| Aluminum | | | | | Aluminum: 50 μg/g |
| | | | | | Creatinine urine (for |
| | | | | | long-term exposures: at |
| | | | | | the end of the shift after |
| | | | | | several shifts) |

| Component | Italy | Finland | Denmark | Bulgaria | Romania |
|-----------|-------|---------|---------|----------|--------------------|
| Aluminum | | | | | Aluminum: 200 μg/L |
| | | | | | urine end of shift |

| Component | Gibraltar | Latvia | Slovak Republic | Luxembourg | Turkey |
|-----------|-----------|--------|----------------------|------------|--------|
| Aluminum | | | Aluminum: 60 μg/g | | |
| | | | creatinine urine not | | |
| | | | critical | | |

Monitoring methods

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

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

Predicted No Effect Concentration (PNEC)

See values below.

| Component | Fresh water | Fresh water sediment | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture) |
|------------------------------|-------------|----------------------|--------------------|---------------------------------------|--------------------|
| Aluminum 7429-90-5 (99) | | | | PNEC = 20mg/L | |

8.2. Exposure controls

Engineering Measures

None under normal use conditions.

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Personal protective equipment

Wear safety glasses with side shields (or goggles) (European standard - EN 166) **Eye Protection**

Hand Protection Protective gloves

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

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, 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, gloves with care avoiding skin contamination.

Respiratory Protection No protective equipment is needed under normal use conditions.

Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits Large scale/emergency use

are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: Particle filter

Small scale/Laboratory use Maintain adequate ventilation

Environmental exposure controls No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Solid; Various Form **Physical State**

Appearance Silver / Grev Odor Odorless

Odor Threshold No data available **Melting Point/Range** 660 °C / 1220 °F **Softening Point** No data available **Boiling Point/Range** 2327 °C / 4220.6 °F

@ 760 mmHg Not applicable Solid

Flammability (liquid)

Flammability (solid,gas) No information available

Explosion Limits No data available

Not applicable Method - No information available Flash Point

Autoignition Temperature No data available **Decomposition Temperature** No data available рΗ Not applicable

Viscosity Not applicable Solid

Water Solubility Insoluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

No data available **Vapor Pressure**

Density / Specific Gravity 2.700

Bulk Density No data available **Vapor Density** Not applicable

Solid Particle characteristics No data available

9.2. Other information

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Molecular Formula Al Molecular Weight 26.97

Evaporation Rate Not applicable - Solid

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

Incompatible products. Excess heat. Avoid dust formation. Exposure to air. Exposure to

moist air or water.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Fumes of aluminum or aluminum oxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information

(a) acute toxicity;

OralNo data availableDermalNo data availableInhalationNo data available

| | Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-----|-----------|-----------|-------------|-----------------------------|
| | Aluminum | - | - | LC50 > 0.888 mg/L (Rat) 4 h |
| - 1 | | | | |

(b) skin corrosion/irritation; No data available

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

(d) respiratory or skin sensitization;

Respiratory SkinNo data available
No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

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(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; Not applicable

Solid

Symptoms / effects,both acute and No information available.

delayed

11.2. Information on other hazards

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain any

known or suspected endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects Contains no substances known to be hazardous to the environment or that are not

degradable in waste water treatment plants.

12.2. Persistence and degradability

Persistence Insoluble in water.

Degradability Not relevant for inorganic substances.

12.3. Bioaccumulative potential May have some potential to bioaccumulate

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

In accordance with Annex XIII of the REACH Regulation, inorganic substances do not

require assessment.

12.6. Endocrine disrupting

properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant
Ozone Depletion Potential

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

Waste from Residues/Unused Chemical waste generators must determine whether a discarded chemical is classified as a

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Products hazardous waste. Consult local, regional, and national hazardous waste regulations to

ensure complete and accurate classification.

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use **Contaminated Packaging**

empty containers.

According to the European Waste Catalog, Waste Codes are not product specific, but **European Waste Catalogue (EWC)**

application specific.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

Switzerland - Waste Ordinance Disposal should be in accordance with applicable regional, national and local laws and

regulations. Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance,

ADWO) SR 814.600

https://www.fedlex.admin.ch/eli/cc/2015/891/en

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

<u>IATA</u> 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. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| | Component | CAS No | EINECS | ELINCS | NLP | IECSC | TCSI | KECL | ENCS | ISHL |
|---|-----------|-----------|-----------|---------|---------|-------|------|----------|-------|-------|
| Γ | Aluminum | 7429-90-5 | 231-072-3 | - | - | Х | X | KE-00881 | X | - |
| Ξ | | | | | | | | | | |
| Γ | Component | CAS No | TSCA | TSCA In | ventory | DSL | NDSL | AICS | NZIoC | PICCS |

notification -

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| | | | Active-Inactive | | | | | |
|----------|-----------|---|-----------------|---|---|---|---|---|
| Aluminum | 7429-90-5 | Х | ACTIVE | X | - | Х | Х | Х |

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

Authorisation/Restrictions according to EU REACH

| Component | CAS No | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous | REACH Regulation (EC 1907/2006) article 59 - Candidate List of |
|-----------|-----------|---|--|--|
| | | Cubject to Authorization | Substances | Substances of Very High |
| | | | | Concern (SVHC) |
| Aluminum | 7429-90-5 | - | Use restricted. See item | - |
| | | | 75. | |
| | | | (see link for restriction | |
| | | | details) | |

REACH links

https://echa.europa.eu/substances-restricted-under-reach

Seveso III Directive (2012/18/EC)

| Component | CAS No | Seveso III Directive (2012/18/EC) - | Seveso III Directive (2012/18/EC) - |
|-----------|-----------|--|---|
| | | Qualifying Quantities for Major Accident | Qualifying Quantities for Safety Report |
| | | Notification | Requirements |
| Aluminum | 7429-90-5 | Not applicable | Not applicable |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

National Regulations

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

WGK Classification See table for values

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|-----------|---------------------------------------|-------------------------|
| Aluminum | nwg | |

| Component | France - INRS (Tables of occupational diseases) | | | |
|-----------|---|--|--|--|
| Aluminum | Tableaux des maladies professionnelles (TMP) - RG 32 | | | |
| | Tableaux des maladies professionnelles (TMP) - RG 16,RG 16bis | | | |

Swiss Regulations

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

15.2. Chemical safety assessment

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

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SECTION 16: OTHER INFORMATION

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

Legend

CAS - Chemical Abstracts Service

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

Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic

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 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

VOC - (volatile organic compound)

IARC - International Agency for Research on Cancer

Predicted No Effect Concentration (PNEC)

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

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

MARPOL - International Convention for the Prevention of Pollution from

Ships ATE - Acute Toxicity Estimate

BCF - Bioconcentration factor

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

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

hygiene.

Training Advice

Prepared By Health, Safety and Environmental Department

12-Oct-2010 **Creation Date Revision Date** 08-Feb-2024

New emergency telephone response service provider. **Revision Summary**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

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

For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2, Number 3, ChemO (SR 813.11 - Ordinance on Protection against Dangerous Substances and Preparations).

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