

according to Regulation (EC) No. 1907/2006

Revision Date 02-May-2025

Revision Number 6

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

1.1. Product identifier

Product Description: Aluminum oxide, gamma-phase, nanopowder

 Cat No. :
 44757

 CAS No
 1344-28-1

 Molecular Formula
 Al2O3

REACH registration number 01-2119529248-35-0449

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

CLP Classification - Regulation (EC) No 1272/2008

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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

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)

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 oxide (Al2O3) | 1344-28-1 | 215-691-6 | 100 | - |

| REACH registration number | 01-2119529248-35-0449 |
|---------------------------|-----------------------|
|---------------------------|-----------------------|

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.

Hazardous Combustion Products

None under normal use conditions.

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

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

6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

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

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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 container tightly closed in a dry 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. **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 |
|---|----------------|----------------|-----------------------------------|---------------------------------|---------------------------------|--------------------------------|
| Ī | Aluminum oxide | | STEL: 30 mg/m ³ 15 min | TWA / VME: 10 mg/m ³ | TWA: 1 mg/m ³ 8 uren | TWA / VLA-ED: 10 |
| 1 | (Al2O3) | | STEL: 12 mg/m ³ 15 min | (8 heures). | _ | mg/m³ (8 horas) TWA / |
| 1 | | | TWA: 10 mg/m ³ 8 hr | | | VLA-ED: 1 mg/m ³ (8 |
| Į | | | TWA: 4 mg/m ³ 8 hr | | | horas) |

| Component | Italy | Germany | Portugal | The Netherlands | Finland |
|----------------|-------|--------------------------------|----------------------------------|-----------------|---------|
| Aluminum oxide | | TWA: 1.25 mg/m ³ (8 | TWA: 1 mg/m ³ 8 horas | | |
| (Al2O3) | | 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/m³ (8 | | | |
| | | Stunden). MAK | | | |

| Component | Austria | Denmark | Switzerland | Poland | Norway |
|----------------|--------------------------------|----------------------------------|-------------------------------|------------------------------|-----------------------------------|
| Aluminum oxide | MAK-KZGW: 10 mg/m ³ | TWA: 5 mg/m ³ 8 timer | STEL: 24 mg/m ³ 15 | TWA: 2.5 mg/m ³ 8 | TWA: 10 mg/m ³ 8 timer |
| (Al2O3) | 15 Minuten | TWA: 2 mg/m ³ 8 timer | Minuten | godzinach | STEL: 20 mg/m ³ 15 |
| | MAK-TMW: 5 mg/m ³ 8 | STEL: 10 mg/m ³ 15 | TWA: 3 mg/m ³ 8 | TWA: 1.2 mg/m ³ 8 | minutter. set equal to |
| | Stunden | minutter | Stunden | godzinach | the limit value for |
| | | STEL: 4 mg/m ³ 15 | TWA: 10 mg/m ³ 8 | - | Nuisance dust;value |
| | | minutter | Stunden | | calculated |

| | Component | Bulgaria | Croatia | Ireland | Cyprus | Czech Republic |
|---|----------------|----------|---------------------------------|---------|--------|----------------|
| Ī | Aluminum oxide | | TWA-GVI: 10 mg/m ³ 8 | | | |
| | (Al2O3) | | satima. total dust, | | | |

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| inhalable particles | | |
|--------------------------------|--|--|
| TWA-GVI: 4 mg/m ³ 8 | | |
| satima. respirable dust | | |

| Comp | onent | Estonia | Gibraltar | Greece | Hungary | Iceland |
|---------|---------|-----------------------------|-----------|---------------------------|-----------------------------|----------------------------------|
| Aluminu | m oxide | TWA: 10 mg/m ³ 8 | | TWA: 10 mg/m ³ | TWA: 52 mg/m ³ 8 | TWA: 10 mg/m ³ 8 |
| (Al20 | O3) | tundides. total dust | | TWA: 5 mg/m ³ | órában. AK Al | klukkustundum. Al |
| | | TWA: 4 mg/m ³ 8 | | _ | | Ceiling: 20 mg/m ³ Al |
| | | tundides. respirable | | | | |
| | | dust | | | | |

| Component | Latvia | Lithuania | Luxembourg | Malta | Romania |
|----------------|--------------------------|--------------------------|------------|-------|--------------------------------|
| Aluminum oxide | TWA: 6 mg/m ³ | TWA: 5 mg/m³ inhalable | | | TWA: 2 mg/m ³ 8 ore |
| (Al2O3) | | fraction IPRD AI | | | TWA: 3 mg/m ³ 8 ore |
| | | TWA: 2 mg/m ³ | | | TWA: 1 mg/m ³ 8 ore |
| | | respirable fraction IPRD | | | STEL: 5 mg/m ³ 15 |
| | | Al | | | minute |
| | | | | | STEL: 10 mg/m ³ 15 |
| | | | | | minute |
| | | | | | STEL: 3 mg/m ³ 15 |
| | | | | | minute |

| Component | Russia | Slovak Republic | Slovenia | Sweden | Turkey |
|---------------------------|--|--|----------|--|--------|
| Aluminum oxide (Al2O3) | TWA: 6 mg/m³ 0043 in the form of disintegration aerosol TWA: 1 mg/m³ 0045 containing up to 20% Cr2O3;catalyst IM-2201 MAC: 3 mg/m³ | TWA: 4 mg/m³ inhalable dust TWA: 1.5 mg/m³ respirable dust | | TLV: 5 mg/m ³ 8 timmar. Al NGV TLV: 2 mg/m ³ 8 timmar. Al NGV | |

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

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 | Water Intermittent | Microorganisms in | Soil (Agriculture) |
|------------------------|-------------------|-------------|--------------------|-------------------|--------------------|
| | | sediment | | sewage treatment | |
| Aluminum oxide (Al2O3) | PNEC = 0.3136µg/L | | PNEC = 3.136µg/L | PNEC = 20mg/L | |
| 1344-28-1 (100) | | | | _ | |

8.2. Exposure controls

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Engineering Measures

None under normal use conditions.

Personal protective equipment

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

Hand Protection Protective gloves

Glove material Breakthrough time Glove thickness **EU** standard Glove comments Disposable gloves See manufacturers EN 374 (minimum requirement) recommendations

Long sleeved clothing. Skin and body protection

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.

@ 760 mmHg

Recommended Filter type: Particle filter

Maintain adequate ventilation Small scale/Laboratory use

No information available. **Environmental exposure controls**

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Solid **Physical State**

Appearance

Odorless Odor

No data available **Odor Threshold** 2030 °C / 3686 °F **Melting Point/Range Softening Point** No data available **Boiling Point/Range** 2977 °C / 5390.6 °F

Flammability (liquid) Not applicable Solid

No information available Flammability (solid, gas)

Explosion Limits No data available

Flash Point No information available Method - No information available

Autoignition Temperature No data available **Decomposition Temperature** No data available

Hq

Viscosity Not applicable Solid

No information available Water Solubility Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

negligible **Vapor Pressure Density / Specific Gravity** 3.9700

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

Particle characteristics No data available

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9.2. Other information

Molecular FormulaAl2O3Molecular Weight101.96

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 PolymerizationNo information available.Hazardous ReactionsNone under normal processing.

10.4. Conditions to avoid

Incompatible products. Excess heat.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: Toxicological information

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

Product Information

(a) acute toxicity;

Oral Based on available data, the classification criteria are not met

DermalNo data availableInhalationNo data available

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------------------|----------------------|-------------|----------------------|
| Aluminum oxide (Al2O3) | > 5000 mg/kg (Rat) | = | > 2.3 mg/l 4 h |
| | (OECD Guideline 401) | | (OECD Guideline 403) |

(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

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(f) carcinogenicity; Based on available data, the classification criteria are not met

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

| Component | EU | UK | Germany | IARC |
|------------------------|----|----|---------------------|------|
| Aluminum oxide (Al2O3) | | | Cat. 2 (Fibre dust) | |

(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

12.2. Persistence and degradability No information available

12.3. Bioaccumulative potential No information available

12.4. Mobility in soil No information available

12.5. Results of PBT and vPvB Substance is r

<u>assessment</u>

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent

and very bioaccumulative (vPvB).

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

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Section 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues/Unused

Products

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to

ensure complete and accurate classification.

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

empty containers.

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

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

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

No special precautions required. 14.6. Special precautions for user

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

Aluminum oxide, gamma-phase, nanopowder

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 |
|------------------------|-----------|-----------|--------|-----|-------|------|----------|------|------|
| Aluminum oxide (Al2O3) | 1344-28-1 | 215-691-6 | - | - | Х | X | KE-01012 | X | Х |

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|------------------------|-----------|------|---|-----|------|------|-------|-------|
| Aluminum oxide (Al2O3) | 1344-28-1 | Х | ACTIVE | Х | - | 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

Not applicable

| Component | | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|------------------------|-----------|---|---|---|
| Aluminum oxide (Al2O3) | 1344-28-1 | - | - | - |

Seveso III Directive (2012/18/EC)

| ſ | Component | CAS No | Seveso III Directive (2012/18/EC) - | Seveso III Directive (2012/18/EC) - | |
|---|------------------------|-----------|--|---------------------------------------|--|
| | • | | Qualifying Quantities for Major Accident | Qualifying Quantities for Safety Repo | |
| | | | Notification | Requirements | |
| Ī | Aluminum oxide (Al2O3) | 1344-28-1 | 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 oxide (Al2O3) | nwg | |

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.

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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

Legend

CAS - Chemical Abstracts Service

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

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

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

Key literature references and sources for data

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

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

Training Advice

hygiene.

Prepared By Health, Safety and Environmental Department

Revision Date 02-May-2025 **Revision Summary** Not applicable.

COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

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).

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

End of Safety Data Sheet

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

Inventory

Substances List

ENCS - Japanese Existing and New Chemical Substances **AICS** - Australian Inventory of Chemical Substances NZIoC - New Zealand Inventory of Chemicals

TWA - Time Weighted Average

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

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 compound)

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

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

Disclaimer

materials or in any process, unless specified in the text