

according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended

Creation Date 03-Mar-2011

Revision Date 09-Feb-2024

Revision Number 6

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

1.1. Product identifier

| Product Description: | 5-Methylpyridine-2-boronic acid N-phenyldiethanolamine ester |
|----------------------|--|
| Cat No. : | 439950000; 439950010; 439950050 |
| Synonyms | 2-(5-Methyl-pyridin-2-yl)-6-phenyl-(1,3,6,2)dioxazaborolane |
| Molecular Formula | C16H19BN2O2 |

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

UK entity/business name **Fisher Scientific UK** Bishop Meadow Road,

Loughborough, Leicestershire LE11 5RG, United Kingdom

EU entity/business name Thermo Fisher Scientific

Janssen Pharmaceuticalaan 3a, 2440 Geel, Belgium

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

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567 **Physical hazards** Flammable solids Category 2 (H228) **Health hazards** Acute oral toxicity Category 4 (H302)

5-Methylpyridine-2-boronic acid N-phenyldiethanolamine ester

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity - (single exposure) Specific target organ toxicity - (repeated exposure)

Environmental hazards

Chronic aquatic toxicity

Category 1 (H318) Category 3 (H335) Category 2 (H373)

Category 2 (H315)

Category 3 (H412)

Full text of Hazard Statements: see section 16

2.2. Label elements



Signal Word

Danger

Hazard Statements

- H228 Flammable solid
- H302 Harmful if swallowed
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H335 May cause respiratory irritation
- H373 May cause damage to organs through prolonged or repeated exposure
- H412 Harmful to aquatic life with long lasting effects

Precautionary Statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

2.3. Other hazards

Toxic to terrestrial vertebrates This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

| Component | CAS No | EC No | Weight % | CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567 |
|---|-------------|-------|----------|---|
| 5-Methylpyridine-2-boronic acid N-phenyldiethanolamine ester | 872054-54-1 | | 50-70 | Flamm. Solid 2 (H228) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) |

Revision Date 09-Feb-2024

5-Methylpyridine-2-boronic acid N-phenyldiethanolamine ester

Revision Date 09-Feb-2024

| Isopropyl alcohol | 67-63-0 | 200-661-7 | 15-30 | Flam. Liq. 2 (H225) |
|-------------------------|----------|-------------------|-------|--------------------------|
| | | | | Eye Irrit. 2 (H319) |
| | | | | STOT SE 3 (H336) |
| N-Phenyl diethanolamine | 120-07-0 | EEC No. 204-368-5 | 10-30 | Acute Tox. 4 (H302) |
| | | | | Acute Tox. 4 (H312) |
| | | | | Eye Dam. 1 (H318) |
| | | | | STOT RE 2 (H373) |
| | | | | Aquatic Chronic 3 (H412) |
| | | | | |

Full text of Hazard Statements: see section 16

| SECTION 4: FIRST AID MEASURES | | | | | | |
|--|--|--|--|--|--|--|
| 4.1. Description of first aid measures | | | | | | |
| General Advice | If symptoms persist, call a physician. | | | | | |
| 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. If skin irritation persists, call a physician. | | | | | |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur. | | | | | |
| Inhalation | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. | | | | | |
| 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 | | | | | | |

Causes eye burns. Causes severe eye damage.

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

| Notes | to | Phv | sician |
|--------|----|-----|--------|
| 110100 | | | |

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media 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. Flammable.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NOx), Oxides of boron.

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. Avoid release to the environment. Collect spillage. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. 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/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on 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. Flammables area.

Technical Rules for Hazardous Substances (TRGS) 510Class 4.1BStorage Class (LGK) (Germany)

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, Fourth edition. Published 2020. **IRE -** 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

| Component | The United Kingdom | European Union | Ireland |
|-----------|--------------------|----------------|---------|
| | | | |

5-Methylpyridine-2-boronic acid N-phenyldiethanolamine ester

Revision Date 09-Feb-2024

| Isopropyl alcohol | STEL: 500 ppm 15 min | TWA: 200 ppm 8 hr. |
|-------------------|-------------------------------------|----------------------|
| | STEL: 1250 mg/m ³ 15 min | STEL: 400 ppm 15 min |
| | TWA: 400 ppm 8 hr | Skin |
| | TWA: 999 mg/m ³ 8 hr | |

Biological limit values

List source(s):

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

See table for values

| Component | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|--------------------------------------|---------------------------------|------------------------------------|-----------------------------------|-----------------------------------|
| Isopropyl alcohol 67-63-0 (15-30) | | | | DNEL = 888mg/kg bw/day |

| Component | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|-------------------|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|
| Isopropyl alcohol | | | | DNEL = 500mg/m ³ |
| 67-63-0(15-30) | | | | |

Predicted No Effect Concentration (PNEC)

See values below.

| Component | Fresh water | | | Microorganisms in | Soil (Agriculture) |
|-------------------------|------------------|-----------------|------------------|-------------------|--------------------|
| | | sediment | | sewage treatment | |
| Isopropyl alcohol | PNEC = 140.9mg/L | PNEC = 552mg/kg | PNEC = 140.9mg/L | PNEC = 2251mg/L | PNEC = 28mg/kg |
| 67-63-0 (15-30) | | sediment dw | | | soil dw |
| N-Phenyl diethanolamine | PNEC = 0.088mg/L | PNEC = | PNEC = 0.88mg/L | PNEC = 400mg/L | PNEC = |
| 120-07-0 (10-30) | _ | 0.405mg/kg | | - | 0.0292mg/kg soil |
| | | sediment dw | | | dw |

| Component | Marine water | Marine water sediment | Marine water intermittent | Food chain | Air |
|---|----------------------|--------------------------------------|------------------------------|-------------------------|-----|
| Isopropyl alcohol 67-63-0 (15-30) | PNEC = 140.9mg/L | PNEC = 552mg/kg sediment dw | | PNEC = 160mg/kg food | |
| N-Phenyl diethanolamine 120-07-0 (10-30) | PNEC = 0.0088mg/L | PNEC = 0.0405mg/kg sediment dw | | | |

8.2. Exposure controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

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 mat Nitrile rub Neopre Natural ru PVC | ber See ne rec | akthrough time e manufacturers commendations | Glove thickness | EU standard EN 374 | Glove comments (minimum requirement) | |
|---|-------------------|--|-----------------|-----------------------|---|---|
| Skin and bo | ody protection | Long sle | eved clothing. | | | _ |

5-Methylpyridine-2-boronic acid N-phenyldiethanolamine ester

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 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.

Remove gloves with care avoiding skin contamination.

| Respiratory Protection | No protective equipment is needed under normal use conditions. |
|----------------------------|--|
| 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 |
| Small scale/Laboratory use | Maintain adequate ventilation |

Environmental exposure controls Prevent product from entering drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Physical State | Solid | |
|---|--|-----------------------------------|
| Appearance Odor Odor Threshold Melting Point/Range Softening Point Boiling Point/Range Flammability (liquid) Flammability (solid,gas) Explosion Limits | Pale brown No information available No data available > 300 °C / 572 °F No data available No information available Not applicable No information available No data available | Solid |
| Flash Point Autoignition Temperature Decomposition Temperature pH Viscosity Water Solubility Solubility in other solvents | No information available No data available No data available No information available Not applicable No information available No information available | Method - No information available |
| Partition Coefficient (n-octanol/wat Component Isopropyl alcohol Vapor Pressure Density / Specific Gravity Bulk Density Vapor Density Particle characteristics | er) log Pow 0.05 No data available No data available No data available Not applicable No data available | Solid |
| 9.2. Other information | | |
| Molecular Formula Molecular Weight Flammable solids Evaporation Rate | C16H19BN2O2 282.15 Burning rate or burning time = > 2.2 m Wetted zone passed - No Not applicable - Solid | nm/s or < 45 secs |

| 10.1. Reactivity | None known, based on information available |
|---|---|
| 10.2. Chemical stability | Stable under recommended storage conditions. |
| 10.3. Possibility of hazardous reacti | ons |
| Hazardous Polymerization Hazardous Reactions | Hazardous polymerization does not occur. None under normal processing. |
| 10.4. Conditions to avoid | Incompatible products. Excess heat. Avoid dust formation. Protect from light. |
| 10.5. Incompatible materials | Strong oxidizing agents. Acids. |

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx). Oxides of boron.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Product Information

(a) acute toxicity;

Oral

Dermal

Inhalation

Category 4 Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met

Toxicology data for the components

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-------------------------|------------------------|-------------------|--------------------------|
| Isopropyl alcohol | 5045 mg/kg (Rat) | 12800 mg/kg (Rat) | 72.6 mg/L (Rat)4 h |
| | 3600 mg/kg (Mouse) | | |
| N-Phenyl diethanolamine | LD50 = 980 mg/kg (Rat) | - | LC50 > 0.1 mg/L (Rat)8 h |
| | | | |

- (b) skin corrosion/irritation; No data available
- (c) serious eye damage/irritation; Category 1
- (d) respiratory or skin sensitization; Respiratory Skin
 No data available No data available
 No data available
 No data available
- (f) carcinogenicity; No data available

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

(g) reproductive toxicity; No data available

5-Methylpyridine-2-boronic acid N-phenyldiethanolamine ester

Revision Date 09-Feb-2024

| (h) STOT-single exposure; | Category 3 |
|-----------------------------|---|
| Results / Target organs | Respiratory system, Central nervous system (CNS). |
| (i) STOT-repeated exposure; | Category 2 |
| Target Organs | Blood. |
| (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

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

| Component | Freshwater Fish | Water Flea | Freshwater Algae |
|-------------------------|---|---|--|
| Isopropyl alcohol | LC50: = 9640 mg/L, 96h flow-through (Pimephales promelas) LC50: > 1400000 µg/L, 96h (Lepomis macrochirus) LC50: = 11130 mg/L, 96h static (Pimephales promelas) LC50: = 10000000 µg/L, 96h (Daphnia) | 13299 mg/L EC50 = 48 h 9714 mg/L EC50 = 24 h | EC50: > 1000 mg/L, 72h (Desmodesmus subspicatus) EC50: > 1000 mg/L, 96h (Desmodesmus subspicatus) |
| N-Phenyl diethanolamine | LC50: = 735 mg/L, 96h flow-through (Pimephales promelas) | | |

| Comp | onent | Microtox | M-Factor |
|----------|-----------|---|----------|
| Isopropy | l alcohol | = 35390 mg/L EC50 Photobacterium phosphoreum 5 min | |
| | | | |

 12.2. Persistence and degradability
 No information available

 Degradation in sewage
 Contains substances kno

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

12.3. Bioaccumulative potential No in

No information available

| Component | log Pow | Bioconcentration factor (BCF) |
|-------------------|---------|-------------------------------|
| Isopropyl alcohol | 0.05 | No data available |

12.4. Mobility in soil

treatment plant

No information available .

12.5. Results of PBT and vPvB

No data available for assessment.

5-Methylpyridine-2-boronic acid N-phenyldiethanolamine ester

Revision Date 09-Feb-2024

assessment

<u>12.6. Endocrine disrupting</u> properties Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

<u>12.7. Other adverse effects</u> 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 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. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition. |
| 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. Do not flush to sewer. Can be landfilled or incinerated, when in compliance with local regulations. Do not empty into drains. Do not let this chemical enter the environment. |

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

| 14.1. UN number 14.2. UN proper shipping name Technical Shipping Name 14.3. Transport hazard class(es) Subsidiary Hazard Class 14.4. Packing group | UN3175 Solids containing flammable liquid, n.o.s Isopropyl alcohol 4.1 + II |
|--|--|
| ADR <u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> Technical Shipping Name <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u> | UN3175 Solids containing flammable liquid, n.o.s Isopropyl alcohol 4.1 II |
| IATA <u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> Technical Shipping Name <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u> | UN3175 Solids containing flammable liquid, n.o.s Isopropyl alcohol 4.1 II |
| 14.5. Environmental hazards | No hazards identified |

5-Methylpyridine-2-boronic acid N-phenyldiethanolamine ester

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 |
|---------------------------------|-------------|-----------|--------|-----|-------|------|----------|------|------|
| 5-Methylpyridine-2-boronic acid | 872054-54-1 | - | - | - | - | - | - | - | - |
| N-phenyldiethanolamine ester | | | | | | | | | |
| Isopropyl alcohol | 67-63-0 | 200-661-7 | - | - | Х | Х | KE-29363 | Х | Х |
| N-Phenyl diethanolamine | 120-07-0 | 204-368-5 | - | - | Х | Х | KE-28387 | Х | Х |

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|---|-------------|------|---|-----|------|------|-------|-------|
| 5-Methylpyridine-2-boronic acid N-phenyldiethanolamine ester | 872054-54-1 | - | - | - | - | - | - | - |
| Isopropyl alcohol | 67-63-0 | Х | ACTIVE | Х | - | Х | Х | Х |
| N-Phenyl diethanolamine | 120-07-0 | Х | ACTIVE | X | - | X | 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 Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|---|-------------|---|--|---|
| 5-Methylpyridine-2-boronic acid N-phenyldiethanolamine ester | 872054-54-1 | - | - | - |
| Isopropyl alcohol | 67-63-0 | - | Use restricted. See item 75. (see link for restriction details) | - |
| N-Phenyl diethanolamine | 120-07-0 | - | - | - |

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) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|---|-------------|---|--|
| 5-Methylpyridine-2-boronic acid N-phenyldiethanolamine ester | 872054-54-1 | Not applicable | Not applicable |
| Isopropyl alcohol | 67-63-0 | Not applicable | Not applicable |
| N-Phenyl diethanolamine | 120-07-0 | 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

Water endangering class = 2 (self classification)

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|-------------------------|---------------------------------------|-------------------------|
| Isopropyl alcohol | WGK1 | |
| N-Phenyl diethanolamine | WGK2 | |

| Component | France - INRS (Tables of occupational diseases) |
|-------------------|--|
| Isopropyl alcohol | Tableaux des maladies professionnelles (TMP) - RG 84 |

| Component | Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81) | Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC) | Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure |
|-------------------------------------|--|---|--|
| Isopropyl alcohol 67-63-0(15-30) | | Group I | |

15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

SECTION 16: OTHER INFORMATION

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

- H228 Flammable solid
- H302 Harmful if swallowed
- H318 Causes serious eye damage
- H335 May cause respiratory irritation
- H373 May cause damage to organs through prolonged or repeated exposure
- H412 Harmful to aquatic life with long lasting effects
- H225 Highly flammable liquid and vapor
- H312 Harmful in contact with skin
- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness

Legend

 CAS - Chemical Abstracts Service
 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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

 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 ENCS - Japanese Existing and New Chemical Substances

 IECSC - Chinese Inventory of Existing Chemical Substances
 AICS - Australian Inventory of Chemical Substances

 KECL - Korean Existing and Evaluated Chemical Substances
 NZIOC - New Zealand Inventory of Chemicals

5-Methylpyridine-2-boronic acid N-phenyldiethanolamine ester

Revision Date 09-Feb-2024

| WEL - Workplace Exposure Limit | | TWA - Time Weighted Average | |
|---|------------------------------|--|--|
| ACGIH - American Conference of Governmental Industrial Hygienists | | IARC - International Agency for Research on Cancer | |
| DNEL - Derived No Effect Level | | Predicted No Effect Concentration (PNEC) | |
| RPE - Respiratory Protective Equipment | | LD50 - Lethal Dose 50% | |
| LC50 - Lethal Concentration 50% | | EC50 - Effective Concentration 50% | |
| NOEC - No Observed Effect Concentration | | POW - Partition coefficient Octanol:Water | |
| PBT - Persistent, Bioaccumulative, Toxic | | vPvB - very Persistent, very Bioaccumulative | |
| ADR - European Agreement Concerning the Dangerous Goods by Road | e International Carriage of | ICAO/IATA - International Civil Aviation Organization/International Air Transport Association | |
| IMO/IMDG - International Maritime Organiza Dangerous Goods Code | ation/International Maritime | MARPOL - International Convention for the Prevention of Pollution from Ships | |
| OECD - Organisation for Economic Co-ope | ration and Development | ATE - Acute Toxicity Estimate | |
| BCF - Bioconcentration factor | | VOC - (Volatile Organic Compound) | |
| Key literature references and source | es for data | | |
| https://echa.europa.eu/information-on- | chemicals | | |
| Suppliers safety data sheet, Chemadvi | | RTECS | |
| | | | |
| • | | n for mixtures according to Regulation (EC) 1272/2008 [CLP]: | |
| Physical hazards | On basis of test data | | |
| Health Hazards | Calculation method | | |
| Environmental hazards | Calculation method | | |
| | | | |

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.

| Creation Date | 03-Mar-2011 |
|------------------|-----------------|
| Revision Date | 09-Feb-2024 |
| Revision Summary | Not applicable. |

This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.

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