

Creation Date 22-Sep-2009

Revision Date 03-Jan-2021

Revision Number 6

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

### 1.1. Product identifier

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Description:      | <b>iso-Propyl acetate</b>             |
| Cat No. :                 | <b>SP/2388/27; SP/2388/25</b>         |
| Synonyms                  | 2-Acetoxyp propane; 2-Propyl Acetate. |
| CAS-No                    | 108-21-4                              |
| EC-No.                    | 203-561-1                             |
| Molecular Formula         | C5 H10 O2                             |
| Reach Registration Number | 01-2119537214-46                      |

### 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 | <b>UK entity/business name</b><br>Fisher Scientific UK<br>Bishop Meadow Road, Loughborough,<br>Leicestershire LE11 5RG, United Kingdom |
|---------|----------------------------------------------------------------------------------------------------------------------------------------|

**EU entity/business name**  
Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

|                |                                |
|----------------|--------------------------------|
| E-mail address | begel.sdsdesk@thermofisher.com |
|----------------|--------------------------------|

### 1.4. Emergency telephone number

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

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

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Flammable liquids

Category 2 (H225)

## Health hazards

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

Category 2 (H319)  
Category 3 (H336)

## Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

## 2.2. Label elements



Signal Word

Danger

## Hazard Statements

H225 - Highly flammable liquid and vapor  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness  
EUH066 - Repeated exposure may cause skin dryness or cracking

## Precautionary Statements

P240 - Ground and bond container and receiving equipment  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

## 2.3. Other hazards

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

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

| Component         | CAS-No   | EC-No.            | Weight % | CLP Classification - Regulation (EC) No 1272/2008                          |
|-------------------|----------|-------------------|----------|----------------------------------------------------------------------------|
| Isopropyl acetate | 108-21-4 | EEC No. 203-561-1 | >95      | Eye Irrit. 2 (H319)<br>STOT SE 3 (H336)<br>Flam. Liq. 2 (H225)<br>(EUH066) |

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Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

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

Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

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

**Notes to Physician** Treat symptomatically. Symptoms may be delayed.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water mist may be used to cool closed containers. Chemical foam. Water mist may be used to cool closed containers.

#### Extinguishing media which must not be used for safety reasons

Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Flammable. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

#### Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

### 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

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## **6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

## **6.2. Environmental precautions**

See Section 12 for additional Ecological Information.

## **6.3. Methods and material for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.

## **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**

Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Take precautionary measures against static discharges. Handle product only in closed system or provide appropriate exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Wash hands before breaks and immediately after handling the product.

#### **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 in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Flammables area. Keep container tightly closed in a dry and well-ventilated place.

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

Class 3

### **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, Third edition. Published 2018. **IRE** - 2018 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

| Component         | The United Kingdom                                         | European Union | Ireland                                    |
|-------------------|------------------------------------------------------------|----------------|--------------------------------------------|
| Isopropyl acetate | STEL: 200 ppm 15 min<br>STEL: 849 mg/m <sup>3</sup> 15 min |                | TWA: 100 ppm 8 hr.<br>STEL: 150 ppm 15 min |

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## 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.

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

**Derived No Effect Level (DNEL)** See table for values

| <u>Route of exposure</u>     | <u>Acute effects (local)</u> | <u>Acute effects (systemic)</u> | <u>Chronic effects (local)</u> | <u>Chronic effects (systemic)</u>        |
|------------------------------|------------------------------|---------------------------------|--------------------------------|------------------------------------------|
| Oral<br>Dermal<br>Inhalation | 850 mg/m <sup>3</sup>        |                                 | 420 mg/m <sup>3</sup>          | 43 mg/kg bw/day<br>420 mg/m <sup>3</sup> |

**Predicted No Effect Concentration (PNEC)** See values below.

|                       |             |
|-----------------------|-------------|
| Fresh water           | 0.22 mg/l   |
| Fresh water sediment  | 1.25 mg/kg  |
| Marine water          | 0.022 mg/l  |
| Marine water sediment | 0.125 mg/kg |
| Water Intermittent    | 1.1 mg/l    |

## 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 explosion-proof electrical/ventilating/lighting/equipment.

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

| <u>Glove material</u> | <u>Breakthrough time</u> | <u>Glove thickness</u> | <u>EU standard</u> | <u>Glove comments</u>                                                          |
|-----------------------|--------------------------|------------------------|--------------------|--------------------------------------------------------------------------------|
| PVA                   | < 120 minutes            | 0.3 mm                 | EN 374             | As tested under EN374-3 Determination of Resistance to Permeation by Chemicals |
| Butyl rubber          | < 20 minutes             | 0.35 mm                |                    |                                                                                |
| Nitrile rubber        | < 20 minutes             | 0.38 mm                |                    |                                                                                |

**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.

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|                                        |                                                                                                                                                                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Respiratory Protection</b>          | No protective equipment is needed under normal use conditions.                                                                                                                                                                              |
| <b>Large scale/emergency use</b>       | Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced<br><b>Recommended Filter type:</b> Organic gases and vapours filter conforming to EN371 |
| <b>Small scale/Laboratory use</b>      | Maintain adequate ventilation                                                                                                                                                                                                               |
| <b>Environmental exposure controls</b> | No information available.                                                                                                                                                                                                                   |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|                                                |                                    |                                          |
|------------------------------------------------|------------------------------------|------------------------------------------|
| <b>Physical State</b>                          | Liquid                             |                                          |
| <b>Appearance</b>                              | Colorless                          |                                          |
| <b>Odor</b>                                    | vinegar-like                       |                                          |
| <b>Odor Threshold</b>                          | 0.5 - 42 ppm                       |                                          |
| <b>Melting Point/Range</b>                     | -73 °C / -99.4 °F                  |                                          |
| <b>Softening Point</b>                         | No data available                  |                                          |
| <b>Boiling Point/Range</b>                     | 88.8 °C / 191.8 °F                 |                                          |
| <b>Flammability (liquid)</b>                   | Highly flammable                   | On basis of test data                    |
| <b>Flammability (solid,gas)</b>                | Not applicable                     | Liquid                                   |
| <b>Explosion Limits</b>                        | <b>Lower</b> 1.8<br><b>Upper</b> 8 |                                          |
| <b>Flash Point</b>                             | 4 °C / 39.2 °F                     | <b>Method -</b> No information available |
| <b>Autoignition Temperature</b>                | 460 °C / 860 °F                    |                                          |
| <b>Decomposition Temperature</b>               | No data available                  |                                          |
| <b>pH</b>                                      | No information available           |                                          |
| <b>Viscosity</b>                               | 0.49 cP at 25 °C                   |                                          |
| <b>Water Solubility</b>                        | 31 g/L (20°C)                      |                                          |
| <b>Solubility in other solvents</b>            | No information available           |                                          |
| <b>Partition Coefficient (n-octanol/water)</b> |                                    |                                          |
| <b>Component</b>                               | <b>log Pow</b>                     |                                          |
| Isopropyl acetate                              | 1.03                               |                                          |
| <b>Vapor Pressure</b>                          | 61 mbar @ 20 °C                    |                                          |
| <b>Density / Specific Gravity</b>              | 0.872                              |                                          |
| <b>Bulk Density</b>                            | Not applicable                     | Liquid                                   |
| <b>Vapor Density</b>                           | 3.5                                | (Air = 1.0)                              |
| <b>Particle characteristics</b>                | Not applicable (liquid)            |                                          |

### 9.2. Other information

|                             |                                             |
|-----------------------------|---------------------------------------------|
| <b>Molecular Formula</b>    | C5 H10 O2                                   |
| <b>Molecular Weight</b>     | 102.13                                      |
| <b>Explosive Properties</b> | Vapors may form explosive mixtures with air |

## SECTION 10: STABILITY AND REACTIVITY

|                         |                                            |
|-------------------------|--------------------------------------------|
| <b>10.1. Reactivity</b> | None known, based on information available |
|-------------------------|--------------------------------------------|

### 10.2. Chemical stability

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Stable under normal conditions, Moisture sensitive.

## 10.3. Possibility of hazardous reactions

### Hazardous Polymerization Hazardous Reactions

Hazardous polymerization does not occur.  
No information available.

## 10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.  
Exposure to moist air or water.

## 10.5. Incompatible materials

Acids. Bases.

## 10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

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

#### Product Information

No acute toxicity information is available for this product

#### (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                    |
|-------------------|---------------------------|-------------------------------|------------------------------------|
| Isopropyl acetate | LD50 = 3000 mg/kg ( Rat ) | LD50 > 17436 mg/kg ( Rabbit ) | 50600 mg/m <sup>3</sup> , 8h (Rat) |

#### (b) skin corrosion/irritation;

Based on available data, the classification criteria are not met

#### (c) serious eye damage/irritation;

Category 2

#### (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;

Based on available data, the classification criteria are not met

There are no known carcinogenic chemicals in this product

#### (g) reproductive toxicity;

Based on available data, the classification criteria are not met

#### (h) STOT-single exposure;

Category 3

Results / Target organs

Central nervous system (CNS).

#### (i) STOT-repeated exposure;

Based on available data, the classification criteria are not met

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**Target Organs** None known.

**(j) aspiration hazard;** Based on available data, the classification criteria are not met

**Other Adverse Effects** The toxicological properties have not been fully investigated.

**Symptoms / effects, both acute and delayed** Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

## 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** Do not empty into drains. .

| Component         | Freshwater Fish   | Water Flea | Freshwater Algae |
|-------------------|-------------------|------------|------------------|
| Isopropyl acetate | 265 mg/l LC50 48h |            |                  |

### 12.2. Persistence and degradability

#### Persistence

Readily biodegradable  
Persistence is unlikely, based on information available.

### 12.3. Bioaccumulative potential

Bioaccumulation is unlikely

| Component         | log Pow | Bioconcentration factor (BCF) |
|-------------------|---------|-------------------------------|
| Isopropyl acetate | 1.03    | No data available             |

### 12.4. Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Will likely be mobile in the environment due to its volatility. Disperses rapidly in air.

### 12.5. Results of PBT and vPvB assessment

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

## 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.



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|                                       |                                                                                                                                                                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contaminated Packaging</b>         | 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. |
| <b>European Waste Catalogue (EWC)</b> | According to the European Waste Catalog, Waste Codes are not product specific, but application specific.                                                                                                                                 |
| <b>Other Information</b>              | 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.                                  |

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

|                                         |                   |
|-----------------------------------------|-------------------|
| <b>14.1. UN number</b>                  | UN1220            |
| <b>14.2. UN proper shipping name</b>    | ISOPROPYL ACETATE |
| <b>14.3. Transport hazard class(es)</b> | 3                 |
| <b>14.4. Packing group</b>              | II                |

### ADR

|                                         |                   |
|-----------------------------------------|-------------------|
| <b>14.1. UN number</b>                  | UN1220            |
| <b>14.2. UN proper shipping name</b>    | ISOPROPYL ACETATE |
| <b>14.3. Transport hazard class(es)</b> | 3                 |
| <b>14.4. Packing group</b>              | II                |

### IATA

|                                         |                   |
|-----------------------------------------|-------------------|
| <b>14.1. UN number</b>                  | UN1220            |
| <b>14.2. UN proper shipping name</b>    | ISOPROPYL ACETATE |
| <b>14.3. Transport hazard class(es)</b> | 3                 |
| <b>14.4. Packing group</b>              | II                |

|                                                                      |                                 |
|----------------------------------------------------------------------|---------------------------------|
| <b>14.5. Environmental hazards</b>                                   | No hazards identified           |
| <b>14.6. Special precautions for user</b>                            | No special precautions required |
| <b>14.7. Maritime transport in bulk according to IMO instruments</b> | 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, Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), China (IECSC), Japan (ENCS), Australia (AICS), Korea (ECL).

| Component         | EINECS    | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | IECSC | AICS | KECL         |
|-------------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|--------------|
| Isopropyl acetate | 203-561-1 | -      |     | X    | X   | -    | X     | X    | X     | X    | KE-2167<br>0 |

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

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## National Regulations

### WGK Classification

See table for values

| Component         | Germany - Water Classification (VwVwS) | Germany - TA-Luft Class |
|-------------------|----------------------------------------|-------------------------|
| Isopropyl acetate | WGK1                                   |                         |

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

UK - 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

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

EUH066 - Repeated exposure may cause skin dryness or cracking

### 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%

**NOEC** - No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**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

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

**IMO/MDG** - 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, Chemadviser - LOLI, Merck index, RTECS

**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)

### 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.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

Chemical incident response training.

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|                  |                       |
|------------------|-----------------------|
| Creation Date    | 22-Sep-2009           |
| Revision Date    | 03-Jan-2021           |
| Revision Summary | Update to CLP Format. |

**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**

## 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**