

Creation Date 22-Sep-2009

Revision Date 05-Jun-2026

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

### 1.1. Product identifier

Product Description:	<u>Allyl chloride, stabilized</u>
Cat No. :	102910000; 102910010; 102911000; 102910025
Synonyms	3-Chloropropene
Index No	602-029-00-X
CAS No	107-05-1
EC No	203-457-6
Molecular Formula	C3 H5 Cl

### 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 Pharmaceuticaaan 3a, 2440 Geel, Belgium

E-mail address [bege1.sdsdesk@thermofisher.com](mailto:bege1.sdsdesk@thermofisher.com)

### 1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 99  
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99  
**CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3889

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

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Acute oral toxicity	Category 3 (H301)
Acute dermal toxicity	Category 3 (H311)
Acute Inhalation Toxicity - Vapors	Category 3 (H331)
Skin Corrosion/Irritation	Category 2 (H315)
Serious Eye Damage/Eye Irritation	Category 2 (H319)
Germ Cell Mutagenicity	Category 2 (H341)
Carcinogenicity	Category 2 (H351)
Specific target organ toxicity - (single exposure)	Category 3 (H335)
Specific target organ toxicity - (repeated exposure)	Category 1 (H372)

## Environmental hazards

Acute aquatic toxicity	Category 1 (H400)
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Full text of Hazard Statements: see section 16

## 2.2. Label elements



Signal Word

Danger

## Hazard Statements

- H225 - Highly flammable liquid and vapor
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation
- H341 - Suspected of causing genetic defects
- H351 - Suspected of causing cancer
- H372 - Causes damage to organs through prolonged or repeated exposure
- H400 - Very toxic to aquatic life
- H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled

## Precautionary Statements

- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
- P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P311 - Call a POISON CENTER or doctor/physician
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing
- P280 - Wear protective gloves/protective clothing/eye protection/face protection

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Component	CAS No	EC No	Weight %	GHS Classification GB-CLP Regulation UK SI
Allyl chloride	107-05-1	EEC No. 203-457-6	>95	Flam. L Acute T Acute T Acute T Skin Irr Eye Irr Muta. Carc. STOT S STOT F Aquatic A
Propylene oxide	75-56-9	EEC No. 200-879-2	0.05-0.09	Flam. L Acute T Acute T Acute T Eye Irr STOT S Muta. Carc.

Component	Specific concentration limits (SCL's)	M-Factor	Co
Allyl chloride	-	1	

Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General Advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

#### Ingestion

Do NOT induce vomiting. Call a physician or poison control center immediately.

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

None reasonably foreseeable. Inhalation of high vapor concentrations 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 to cool closed containers.

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

No information available.

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

Flammable. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. May explode when heated. Vapors may form explosive mixtures with air. Do not allow run-off from fire-fighting to enter drainage courses.

#### Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Phosgene, Hydrogen chloride gas.

### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Use personal protective equipment as required. Keep people away from and upwind. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharge.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water sources. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

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

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

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## 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharge.

## **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feed. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including shoes, before re-use. Wash hands before breaks and after work.

## 7.2. Conditions for safe storage, including any incompatibilities

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

**Technical Rules for Hazardous Substances (TRGS) 510**      Class 3  
**Storage 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 Control of Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority. **EU** - Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values and amending Council Directive 98/24/EC and amending Commission Directive 2000/39/EC

Component	The United Kingdom	European Union	
Allyl chloride			S S
Propylene oxide	STEL: 3 ppm 15 min STEL: 7.2 mg/m <sup>3</sup> 15 min TWA: 1 ppm 8 hr TWA: 2.4 mg/m <sup>3</sup> 8 hr Carc.	TWA: 2.4 mg/m <sup>3</sup> (8h) TWA: 1 ppm (8h)	T S ST

### **Biological limit values**

List source(s):

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Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Allyl chloride 107-05-1 (>95)	DNEL = 15.4mg/m <sup>3</sup>	DNEL = 6.2mg/m <sup>3</sup>		
Propylene oxide 75-56-9 (0.05-0.09)	DNEL = 170mg/m <sup>3</sup>		DNEL = 2.4mg/m <sup>3</sup>	

## Predicted No Effect Concentration (PNEC)

See values below.

Component	Fresh water	Fresh water sediment	Water Intermittent	Microorganisms in sewage treatment
Allyl chloride 107-05-1 (>95)	PNEC = 0.0012mg/L	PNEC = 0.00996mg/kg sediment dw	PNEC = 0.012mg/L	PNEC = 120mg/L
Propylene oxide 75-56-9 (0.05-0.09)	PNEC = 0.052mg/L	PNEC = 0.245mg/kg sediment dw	PNEC = 0.52mg/L	PNEC = 10mg/L

Component	Marine water	Marine water sediment	Marine water intermittent	Food chain
Allyl chloride 107-05-1 (>95)	PNEC = 0.00012mg/L	PNEC = 0.000996mg/kg sediment dw		
Propylene oxide 75-56-9 (0.05-0.09)	PNEC = 0.0052mg/L	PNEC = 0.0245mg/kg sediment dw		

## 8.2. Exposure controls

### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are readily accessible from 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 engineering equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be used to control hazardous materials at source

### Personal protective equipment

#### Eye Protection

Goggles (European standard - EN 166)

#### Hand Protection

Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove code
Viton (R)	See manufacturers recommendations	-	EN 374	(minimum requirements)

#### 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. (Refer to manufacturer/supplier for information)

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	and maintained properly
<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 <b>Recommended Filter type:</b> low boiling organic solvent Type AX Brown EN371
<b>Small scale/Laboratory use</b>	Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. <b>Recommended half mask:-</b> Valve filtering: EN405; or; Half mask: EN141 When RPE is used a face piece Fit Test should be conducted
<b>Environmental exposure controls</b>	Prevent product from entering drains. Do not allow material to contaminate the drainage system. Local authorities should be advised if significant spillages cannot be cleaned up.

## 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>	pungent	
<b>Odor Threshold</b>	No data available	
<b>Melting Point/Range</b>	-136 °C / -212.8 °F	
<b>Softening Point</b>	No data available	
<b>Boiling Point/Range</b>	44 - 46 °C / 111.2 - 114.8 °F	@ 760 mmHg
<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> 3.3 Vol% <b>Upper</b> 11.2 Vol%	
<b>Flash Point</b>	-29 °C / -20.2 °F	<b>Method -</b> No information available
<b>Autoignition Temperature</b>	390 °C / 734 °F	
<b>Decomposition Temperature</b>	No data available	
<b>pH</b>	No information available	
<b>Viscosity</b>	0.34 mPa.s at 20 °C	
<b>Water Solubility</b>	3.6 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>	
Allyl chloride	2.1	
Propylene oxide	1	
<b>Vapor Pressure</b>	395 mbar @ 20 °C	
<b>Density / Specific Gravity</b>	0.939	
<b>Bulk Density</b>	Not applicable	Liquid
<b>Vapor Density</b>	No information available	(Air = 1.0)
<b>Particle characteristics</b>	Not applicable (liquid)	

### 9.2. Other information

**Molecular Formula** C<sub>3</sub> H<sub>5</sub> Cl

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## 10.1. Reactivity

None known, based on information available

## 10.2. Chemical stability

May form explosive peroxides.

## 10.3. Possibility of hazardous reactions

**Hazardous Polymerization**  
**Hazardous Reactions**

Hazardous polymerization may occur.  
None under normal processing.

## 10.4. Conditions to avoid

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

## 10.5. Incompatible materials

Acids. Bases. Amines. Metals. Finely powdered metals.

## 10.6. Hazardous decomposition products

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

## SECTION 11: TOXICOLOGICAL INFORMATION

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

#### Product Information

#### (a) acute toxicity;

Oral Category 3  
Dermal Category 3  
Inhalation Category 3

Component	LD50 Oral	LD50 Dermal	LC50
Allyl chloride	LD50 = 450 mg/kg ( Rat )	LD50 = 2026 mg/kg ( Rabbit )	LC50 =
Propylene oxide	LD50 = 382 mg/kg ( Rat ), OECD Guideline 401	LD50 = 950 mg/kg ( Rabbit )	LC50 = 9 OEC

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 2

#### (d) respiratory or skin sensitization;

Respiratory No data available  
Skin No data available

(e) germ cell mutagenicity; Category 2

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Propylene oxide	Carc Cat. 1B		
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**(g) reproductive toxicity;** No data available

**(h) STOT-single exposure;** Category 3

**Results / Target organs** Respiratory system.

**(i) STOT-repeated exposure;** Category 1

**Target Organs** Central nervous system (CNS), Liver, Kidney.

**(j) aspiration hazard;** No data available

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

## 11.2. Information on other hazards

**Endocrine Disrupting Properties** Assess endocrine disrupting properties for human health. This product is not known or suspected endocrine disruptors.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecotoxicity effects** The product contains following substances which are hazardous for the environment, especially toxic to aquatic organisms.

Component	Freshwater Fish	Water Flea	Fre
Allyl chloride	LC50: 41.03 - 67.02 mg/L, 96h static (Poecilia reticulata) LC50: 14.97 - 24.78 mg/L, 96h static (Pimephales promelas) LC50: 33.52 - 53.47 mg/L, 96h static (Lepomis macrochirus)		
Propylene oxide	LC50: = 215 mg/L, 96h static (Lepomis macrochirus)	EC50: = 350 mg/L, 48h (Daphnia magna)	EC50 (Pseudokir

Component	Microtox	M-Fac
Allyl chloride		1
Propylene oxide	EC50 = 3300 mg/L 160 min	

### 12.2. Persistence and degradability

**Persistence** Persistence is unlikely, based on information available.

**Degradation in sewage treatment plant** Contains substances known to be hazardous to the environment or not suitable for water treatment plants

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## 12.4. Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate from surfaces. Will likely be mobile in the environment due to its volatility. Do not release into air.

## 12.5. Results of PBT and vPvB assessment

No data available for 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 Products

Waste is classified as hazardous. Dispose of in accordance with the European Union waste and hazardous waste. Dispose of in accordance with local regulations.

#### Contaminated Packaging

Dispose of this container to hazardous or special waste collection point. Do not retain product residue, (liquid and/or vapor), and can be dangerous. Keep empty container away from heat and sources of ignition.

#### European Waste Catalogue (EWC)

According to the European Waste Catalog, Waste Codes are not provided for application specific.

#### Other Information

Do not flush to sewer. Waste codes should be assigned by the user based on application for which the product was used. Can be landfilled or incinerated in compliance with local regulations. Do not let this chemical enter the environment. Do not empty into drains.

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

#### 14.1. UN number

UN1100

#### 14.2. UN proper shipping name

ALLYL CHLORIDE

#### 14.3. Transport hazard class(es)

3

#### Subsidiary Hazard Class

6.1

#### 14.4. Packing group

I

### ADR

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**14.1. UN number** UN1100  
**14.2. UN proper shipping name** ALLYL CHLORIDE  
**14.3. Transport hazard class(es)** 3  
**Subsidiary Hazard Class** 6.1  
**14.4. Packing group** I

**14.5. Environmental hazards** Dangerous for the environment  
 Product is a marine pollutant according to the criteria set by IMDG/IMCO

**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/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
Allyl chloride	107-05-1	203-457-6	-	-	X	X	KE-05882
Propylene oxide	75-56-9	200-879-2	-	-	X	X	KE-24565

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS
Allyl chloride	107-05-1	X	ACTIVE	X	-	X
Propylene oxide	75-56-9	X	ACTIVE	X	-	X

**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 (1907/2006) - Annex XVIII - Substances of Very High Concern
Allyl chloride	107-05-1	-	Use restricted. See entry 75. (see link for restriction details)	
Propylene oxide	75-56-9	-	Use restricted. See entry 28. (see link for restriction details) Use restricted. See entry 29. (see link for restriction details)	

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

<https://echa.europa.eu/candidate-list-table>

After the sunset date the use of this substance requires either an authorization or can only be used for exempt scientific research and development which includes routine analytics or use as intermediate.

## Seveso III Directive (2012/18/EC)

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive - Qualifying Quantities for Major Accident Notification
Allyl chloride	107-05-1	Not applicable	Not applicable
Propylene oxide	75-56-9	5 tonne	50 tonne

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

Component	CAS No	OECD HPV	Restriction of Hazardous Substances (RoHS)
Allyl chloride	107-05-1	Listed	Not applicable
Propylene oxide	75-56-9	Listed	Not applicable

## Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the 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 work .

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

## 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
Allyl chloride	WGK2	Class I : 20 mg/m <sup>3</sup> (Massen)
Propylene oxide	WGK3	Krebserzeugende Stoffe - Class II (Massenkonzentration)

Component	France - INRS (Tables of occupational diseases)
Allyl chloride	Tableaux des maladies professionnelles (TMP) - RG 12

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H301 - Toxic if swallowed  
H311 - Toxic in contact with skin  
H331 - Toxic if inhaled  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H341 - Suspected of causing genetic defects  
H351 - Suspected of causing cancer  
H372 - Causes damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H224 - Extremely flammable liquid and vapor  
H225 - Highly flammable liquid and vapor  
H302 - Harmful if swallowed  
H340 - May cause genetic defects  
H350 - May cause cancer

## 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 Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Canadian 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  
**PNEC** - 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

**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

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

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**ATE** - Acute Toxicity Estimate

**VOC** - (Volatile Organic Compound)

## Training Advice

Chemical incident response training.

**Creation Date**

22-Sep-2009

**Revision Date**

05-Jun-2026

**Revision Summary**

SDS sections updated.

**This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2022/123 amended.**

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**End of Safety Data Sheet**