

## SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: UK REACH Regulations (SI 2019/758 as amended)

SDS # : A-10025

## Toner - Cyan, Magenta, yellow, Black

Issuing Date 08-May-2012

Revision date 06-Aug-2025

Revision Number 2

United Kingdom

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product Name** Toner for Phaser 6600, WorkCentre 6605, WorkCentre 6655, WorkCentre 6655i, Xerox® VersaLink C400, Xerox® VersaLink C405 Multifunction Printer  
**Part no.** 106R02225, 106R02226, 106R02227, 106R02228, 106R02229, 106R02230, 106R02231, 106R02232, 106R02233, 106R02234, 106R02235, 106R02236, 106R02237, 106R02238, 106R02239, 106R02240, 106R02241, 106R02242, 106R02243, 106R02244, 106R02245, 106R02246, 106R02247, 106R02248, 106R02249, 106R02250, 106R02251, 106R02252, 106R02744, 106R02745, 106R02746, 106R02747, 106R02748, 106R02749, 106R02750, 106R02751, 106R02752, 106R02753, 106R02754, 106R02755, 106R03106, 106R03107, 106R03108, 106R03500, 106R03501, 106R03502, 106R03503, 106R03508, 106R03509, 106R03510, 106R03511, 106R03512, 106R03513, 106R03514, 106R03515, 106R03516, 106R03517, 106R03518, 106R03519, 106R03520, 106R03521, 106R03522, 106R03523, 106R03524, 106R03525, 106R03526, 106R03527, 106R03528, 106R03529, 106R03530, 106R03531, 106R03532, 106R03533, 106R03534, 106R03535, 106R03536, 106R03537, 106R03538, 106R03539

**Pure substance/mixture** Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** Xerographic printing

**Uses advised against** No information available

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Xerox Ltd.  
Uxbridge Business Park  
Building 4  
Sanderson Road  
Uxbridge  
Middlesex. UB8 1DH, UK

##### For further information, please contact

**Contact Point** Manager, Environment, Health, Safety & Sustainability

**E-mail address** ehs-europe@xerox.com

**For the most current document** <https://safetysheets.business.xerox.com>

#### 1.4. Emergency telephone number

Emergency Telephone Not applicable

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

Not classified

#### 2.2. Label elements

Not classified

#### **Hazard statements**

Not classified.

EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

Other hazards

May form explosive dust-air mixture if dispersed.

PBT and vPvB assessment

The product does not contain any substance(s) classified as PBT or vPvB.

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	Weight-%	CAS No.	EC No (EU Index No)	Classification according to GB CLP (SI 2020/1567 as amended)	UK REACH registration number	M-Factor
Polyester Resin	70-90	Proprietary	Not Listed	-	-	-
Wax	1-10	8002-74-2	232-315-6	-	-	-
Yellow Pigment	0-10	6358-31-2	228-768-4	-	-	-
Carbon black	0-10	1333-86-4	215-609-9	-	-	-
Magenta Pigment	0-10	Proprietary	Listed	-	-	-
Cyan Pigment	0-10	147-14-8	205-685-1	-	-	-
Titanium dioxide	<1	13463-67-7	236-675-5	-	-	-
Zinc stearate	<0.05	557-05-1	Present	-	-	-
Strontium titanium oxide (SrTiO <sub>3</sub> )	<0.05	12060-59-2	Present	-	-	-

#### Full text of H- and EUH-phrases: see section 16

#### **Note**

"--" indicates no classification or hazard statements apply.

Components marked as "Not Listed" are exempt from registration.

Where no REACH registration number is listed, it is considered confidential to the Only Representative.

#### Acute Toxicity Estimate

In the absence of LD50/LC50 data, the conversion value (converted acute toxicity point estimate) may be indicated here; please note that these values do not represent test results

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Wax	5000	3600	No data available	No data available	No data available
Carbon black	10000	2000	0.0046	No data available	No data available
Cyan Pigment	6400	5000	No data available	No data available	No data available
Titanium dioxide	2000	No data available	5.09	No data available	No data available
Zinc stearate	2000	2000	50	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

<b>General advice</b>	For external use only. Get medical attention if irritation or other symptoms occur. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Ingestion</b>	Rinse mouth.

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

<b>Symptoms</b>	Dust irritates eyes and air passages.
<b>Effects of Exposure</b>	No information available.

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

<b>Note to doctors</b>	Treat symptomatically.
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## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Use water spray or fog; do not use straight streams.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

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

**Specific hazards arising from the chemical** Fine dust dispersed in air may ignite.

**Hazardous combustion products** Hazardous decomposition products due to incomplete combustion. Carbon oxides. Nitrogen oxides (NOx).

## 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** In case of fire: Wear self-contained breathing apparatus. Use personal protection equipment.

# **SECTION 6: Accidental release measures**

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

**Personal precautions** Avoid generation of dust. Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

## 6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so. Prevent dust cloud.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. Avoid generation of dust.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

## 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Xerox Exposure Limit	2.5 mg/m <sup>3</sup> (total dust)
Xerox Exposure Limit	0.4 mg/m <sup>3</sup> (respirable dust)

### Exposure Limits

Chemical name	United Kingdom
Wax	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>
Carbon black	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
Cyan Pigment	TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>
Titanium dioxide	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>
Zinc stearate	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>

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

### Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Carbon black			1 mg/m <sup>3</sup> [4] [6]
Cyan Pigment		4.67 mg/kg bw/day [4] [6]	16.4 mg/m <sup>3</sup> [4] [6]
Magenta pigment		42 mg/kg bw/day [4] [6]	147 mg/m <sup>3</sup> [4] [6] 3 mg/m <sup>3</sup> [5] [6]
Zinc stearate		4.67 mg/kg bw/day [4] [6]	16.4 mg/m <sup>3</sup> [4] [6]
Strontium titanium oxide (SrTiO <sub>3</sub> )		3.33 mg/kg bw/day [4] [6]	11.67 mg/m <sup>3</sup> [4] [6]

### Notes

- [4] Systemic health effects.
- [5] Local health effects.
- [6] Long term.

### Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Carbon black			0.06 mg/m <sup>3</sup> [4] [6]
Cyan Pigment	1.67 mg/kg bw/day [4] [6]		2.9 mg/m <sup>3</sup> [4] [6]
Magenta pigment	25 mg/kg bw/day [4] [6]		

Chemical name	Oral	Dermal	Inhalation
Zinc stearate	1.67 mg/kg bw/day [4] [6]		2.9 mg/m <sup>3</sup> [4] [6]
Strontium titanium oxide (SrTiO <sub>3</sub> )	1.67 mg/kg bw/day [4] [6]		2.92 mg/m <sup>3</sup> [4] [6]

**Notes**

[4] Systemic health effects.  
 [6] Long term.

**Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Carbon black	50 mg/L				
Cyan Pigment	0.1 mg/L		10 µg/L		
Zinc stearate	3.4 µg/L	4.13 µg/L	0.34 µg/L	0.413 µg/L	
Strontium titanium oxide (SrTiO <sub>3</sub> )	33.33 mg/kg food		33.33 mg/kg food		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Cyan Pigment			1000 mg/L		
Zinc stearate	0.526 mg/kg sediment dw	52.6 µg/kg sediment dw		0.103 mg/kg soil dw	
Strontium titanium oxide (SrTiO <sub>3</sub> )			100 mg/L		

**8.2. Exposure controls**

**Engineering controls** None under normal use conditions.

**Personal protective equipment**

**Eye/face protection** No special protective equipment required.

**Hand protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Thermal hazards** None under normal processing.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## SECTION 9: Physical and chemical properties

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

Physical state	Solid
Appearance	Powder
Colour	Cyan Magenta yellow Black
Odour	Faint.
Odour threshold	Not applicable

Property	Values	Remarks • Method
Melting point / freezing point		None known
Initial boiling point and boiling range		None known
Flammability	Not flammable	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	Not applicable	
Lower flammability or explosive limits	Not applicable	
Flash point	Not applicable	None known
Autoignition temperature	Not applicable	None known
Decomposition temperature	Not applicable	None known
pH	Not applicable	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	Not applicable	None known
Dynamic viscosity	Not applicable	None known
Water solubility	negligible	None known
Solubility(ies)	No data available	None known
Partition coefficient	Not applicable	None known
Vapour pressure	not applicable	None known
Relative density	1-2	None known
Bulk density	Not applicable	
Liquid Density	Not applicable	
Relative vapour density	not applicable	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard	
Oxidising properties	No information available	
9.2. Other information		
Softening point	49 - 60 °C / 120 - 140 °F	
VOC content	None	

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
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### 10.2. Chemical stability

Stability	Stable under normal conditions.
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#### Explosion data

Sensitivity to mechanical impact None.

**Sensitivity to static discharge** None.

#### **10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**Hazardous polymerisation** Hazardous polymerisation does not occur.

#### **10.4. Conditions to avoid**

**Conditions to avoid** Generation/formation of dust.

#### **10.5. Incompatible materials**

**Incompatible materials** None known based on information supplied.

#### **10.6. Hazardous decomposition products**

**Hazardous decomposition products** None under normal use.

### **SECTION 11: Toxicological information**

#### **11.1. Information on toxicological effects**

##### **Information on likely routes of exposure**

##### **Product Information**

**Inhalation** No known effects under normal use conditions.

**Eye contact** No hazard from product as supplied.

**Skin contact** No hazard from product as supplied.

**Ingestion** No hazard from product as supplied.

##### **Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** None known.

##### **Acute toxicity**

##### **Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**

**ATEmix (oral)** 31,526.50 mg/kg

**ATEmix (dermal)** 15,568.20 mg/kg

**ATEmix (inhalation-gas)** 99,999.00 ppm

**ATEmix (inhalation-vapour)** 99,999.00 mg/l

##### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Wax	> 5000 mg/kg ( Rat )	> 3600 mg/kg ( Rabbit )	-
Carbon black	> 10000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 4.6 mg/m <sup>3</sup> ( Rat ) 4 h

Cyan Pigment	> 6400 mg/kg ( Rat )	> 5000 mg/kg ( Rat )	-
Titanium dioxide	> 2000 mg/kg ( Rat )	-	> 5.09 mg/L ( Rat ) 4 h
Zinc stearate	> 2000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 200 mg/L ( Rat ) 1 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Not mutagenic in AMES Test.

**Carcinogenicity** The IARC (International Agency for Research on Cancer) has listed carbon black as "possibly carcinogenic to humans". However, Xerox has concluded that the presence of carbon black in this mixture does not present a health hazard. The IARC classification is based on studies evaluating pure, "free" carbon black. In contrast, toner is a formulation composed of specially prepared polymer and a small amount of carbon black (or other pigment). In the process of making toner, the small amount of carbon black becomes encapsulated within a matrix. Xerox has performed extensive testing of toner, including a chronic bioassay (test for potential carcinogenicity). Exposure to toner did not produce evidence of cancer in exposed animals. The results were submitted to regulatory agencies and published extensively.

The IARC (International Agency for Research on Cancer) has listed titanium dioxide as "possibly carcinogenic to humans". However, Xerox has concluded that the presence of titanium dioxide in this mixture does not present a health hazard. The IARC classification is based on studies in rats using high concentrations of pure, unbound TiO<sub>2</sub> particles of respirable size. Epidemiological studies do not suggest a carcinogenic effects in humans. In addition, the titanium dioxide in this mixture is encapsulated in a matrix or bound to the surface of the toner.

**Reproductive toxicity** This product does not contain any known or suspected reproductive hazards.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Neurological effects** No information available.

**Other adverse effects** None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Not considered to be harmful to aquatic life.

**Chronic Aquatic Toxicity** On available data, substance is not harmful to aquatic life.

### 12.2. Persistence and degradability

**Persistence and degradability** Not readily biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulation**

#### **Component Information**

Chemical name	Partition coefficient
Cyan Pigment	6.6
Zinc stearate	4.64

### 12.4. Mobility in soil

**Mobility in soil** The product is insoluble and floats on water.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Wax	The substance is not PBT / vPvB
Yellow Pigment	The substance is not PBT / vPvB
Carbon black	The substance is not PBT / vPvB
Magenta Pigment	The substance is not PBT / vPvB
Cyan Pigment	The substance is not PBT / vPvB
Titanium dioxide	The substance is not PBT / vPvB
Zinc stearate	The substance is not PBT / vPvB
Strontium titanium oxide (SrTiO <sub>3</sub> )	The substance is not PBT / vPvB

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Dispose of contents/containers in accordance with local regulations.

**Other information** Although toner is not an aquatic toxin, microplastics may be a physical hazard to aquatic life and should not be allowed to enter drains, sewers, or waterways. Do Not Pour Product Down the Drain; Do Not Rinse the Container Before Disposal.

## SECTION 14: Transport information

**Note:** This material is not subject to regulation as a hazardous material for shipping

**IATA**

14.1 UN number or ID number Not regulated  
14.2 UN proper shipping name Not regulated  
14.3 Transport hazard class(es) Not regulated  
14.4 Packing group Not regulated  
14.5 Environmental hazards Not applicable  
14.6 Special precautions for user  
    Special Provisions None

**IMDG**

14.1 UN number or ID number Not regulated  
14.2 UN proper shipping name Not regulated  
14.3 Transport hazard class(es) Not regulated  
14.4 Packing group Not regulated  
14.5 Environmental hazards Not applicable  
14.6 Special precautions for user  
    Special Provisions None  
14.7 Maritime transport in bulk  
    according to IMO instruments No information available

**RID**

14.1 UN number or ID number Not regulated  
14.2 UN proper shipping name Not regulated  
14.3 Transport hazard class(es) Not regulated  
14.4 Packing group Not regulated  
14.5 Environmental hazards Not applicable  
14.6 Special precautions for user  
    Special Provisions None

**ADR**

14.1 UN number or ID number Not regulated  
14.2 UN proper shipping name Not regulated  
14.3 Transport hazard class(es) Not regulated  
14.4 Packing group Not regulated  
14.5 Environmental hazards Not applicable  
14.6 Special precautions for user  
    Special Provisions None

## SECTION 15: Regulatory information

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

**National regulations**

**Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

**Persistent Organic Pollutants**

Not applicable

**Export Notification requirements**

Not applicable

**Named dangerous substances per COMAH (SI 2015/483 as amended)**

Not applicable

**The Ozone-Depleting Substances Regulations 2015**

Not applicable

**The Biocidal Products Regulations 2001 (as amended)**

Not applicable

**The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)**

Not applicable

**Poisons and Explosive Precursors**

Not applicable

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Contact supplier for inventory compliance status
<b>IECSC</b>	Contact supplier for inventory compliance status
<b>KECL</b>	Contact supplier for inventory compliance status
<b>PICCS</b>	Contact supplier for inventory compliance status
<b>AIIC</b>	Contact supplier for inventory compliance status
<b>NZIoC</b>	Contact supplier for inventory compliance status
<b>TCSI</b>	Contact supplier for inventory compliance status

**Legend:**

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

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

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AIIC** - Australian Inventory of Industrial Chemicals

**NZIoC** - New Zealand Inventory of Chemicals

**TCSI** - Taiwan Chemical Substance Inventory

**15.2. Chemical safety assessment**

**Chemical Safety Report**

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required

**SECTION 16: Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend**

SVHC: Substances of Very High Concern for Authorisation:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances  
STOT: Specific Target Organ Toxicity  
ATE: Acute Toxicity Estimate  
LC50: 50% Lethal Concentration  
LD50: 50% Lethal Dose

**Legend Section 8: Exposure controls/personal protection**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation
+	Sensitisers		

**Classification procedure**

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	On basis of test data
Skin corrosion/irritation	On basis of test data
Serious eye damage/eye irritation	On basis of test data
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	On basis of test data
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	On basis of test data
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
European Chemicals Agency (ECHA) (ECHA\_API)  
Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision date** 06-Aug-2025

**Revision Note** SDS sections updated. 3. 13. 15. 16.

**This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)**

**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**

**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**

**UK SDS version information - XGHS**

UL release:  
GHS Revision 7  
2024 Q3

**United Kingdom**

Partial process, including GHS Wizard, NO TW