

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



Version: 3.0

Product number: 104591

Revision Date: 26.02.2026

Print Date: 27.02.2026

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

### 1.1 Product identifier

Product number                    104591  
Product name                      Iriodin® 303 Royal Gold

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

Use of the Sub-                    :    Colouring agent  
stance/Mixture

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

Company                            Surface Materials Limited  
    167-169 Great Portland Street 5th Floor, London W1W 5PF  
Organisation that prepared    SDS\_inquiries@susonity.com  
the SDS

### 1.4 Emergency telephone number

+44 20 3807 3798 CHEMTREC (GB) 1-703-741-5970 CHEMTREC  
(International)

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements    :    **Prevention:**  
    P260    Do not breathe dust.

#### Additional Labelling

EUH210                    Safety data sheet available on request.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Mica coated with:  
titanium dioxide, ferric oxide  
tin oxide

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Substances with a workplace exposure limit :			
tin dioxide	18282-10-5 242-159-0 01-2119946062-44-XXXX		>= 1 - < 10

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

If inhaled : fresh air.

In case of skin contact : Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact : rinse out with plenty of water.  
Remove contact lenses.

If swallowed : make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

Symptoms : We have no description of any toxic symptoms.

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

Treatment : No information available.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

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

Specific hazards during fire-fighting : Not combustible.

Ambient fire may liberate hazardous vapours.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information : Suppress (knock down) gases/vapours/mists with a water spray jet.

none

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### SECTION 6: Accidental release measures

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

Personal precautions : Advice for non-emergency personnel:  
Avoid inhalation of dusts.  
Evacuate the danger area, observe emergency procedures, consult an expert.  
Advice for emergency responders:  
Protective equipment see section 8.

#### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

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

Methods for cleaning up : Observe possible material restrictions (see sections 7 and 10).  
Take up dry. Dispose of properly. Clean up affected area.  
Avoid generation of dusts.

#### 6.4 Reference to other sections

For disposal considerations see section 13.

For personal protection see section 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Observe label precautions.  
Hygiene measures : Change contaminated clothing. Wash hands after working with substance.

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

- Requirements for storage areas and containers : Store in original container.

- Further information on storage conditions : Tightly closed. Dry.

Risks from decomposition products: see section 10

- Recommended storage temperature : If there is a suitable storage temperature range to be complied with, product label contains the relevant information accordingly.

#### 7.3 Specific end use(s)

- Specific use(s) : Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
mica (muscovite)	12001-26-2	TWA (Inhalable)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable fraction)	0.8 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable particulate matter)	0.1 mg/m <sup>3</sup>	ACGIH
titanium(IV) oxide	13463-67-7	TWA (inhalable dust)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable dust)	4 mg/m <sup>3</sup>	GB EH40
iron(III) oxide	1309-37-1	TWA (inhalable dust)	10 mg/m <sup>3</sup>	GB EH40
	Further information: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respira-			

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		<p>ble, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m<sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m<sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.</p>		
		TWA (Respirable dust)	4 mg/m <sup>3</sup>	GB EH40
		<p>Further information: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m<sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m<sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.</p>		
		TWA (Respirable particulate matter)	5 mg/m <sup>3</sup>	ACGIH
tin dioxide	18282-10-5	TWA	2 mg/m <sup>3</sup> (Tin)	91/322/EEC
		<p>Further information: Indicative, Existing scientific data on health effects appear to be particularly limited</p>		
		TWA	2 mg/m <sup>3</sup> (Tin)	GB EH40

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		STEL	4 mg/m <sup>3</sup> (Tin)	GB EH40
		TWA (Inhalable particulate matter)	2 mg/m <sup>3</sup> (Tin)	ACGIH
General threshold limit value for dust	42945	TWA (Inhalable)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable fraction)	4 mg/m <sup>3</sup>	GB EH40

### 8.2 Exposure controls

#### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7

#### Personal protective equipment

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled and must meet the specifications of a standard EN/ISO/DIN. The chemical resistance of the protective equipment should be enquired at the respective supplier.

- Eye protection : Safety glasses  
Equipment should conform to EN 166
- Hand protection : not required  
Filter type : Filter P 1 (acc. to DIN 3181) for solid particles of inert substances
- Respiratory protection : Equipment should conform to EN 14387  
required when dusts are generated.

#### Environmental exposure controls

- Water : No special precautionary measures necessary.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : solid  
Form : powder
- Colour : yellow  
Odour : odourless  
Odour Threshold : Not applicable
- Freezing point : No data available  
Boiling point : No data available  
Flammability : not combustible
- Upper explosion limit / Upper flammability limit : No data available  
Lower explosion limit / Lower : No data available

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flammability limit	
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: substance/mixture is non-soluble (in water)
Viscosity	
Viscosity, kinematic	: No data available
Solubility(ies)	
Water solubility	: (20 °C) insoluble
Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: No data available
Vapour pressure	: No data available
Density	: 3.1 - 3.3 g/cm <sup>3</sup> (20 °C)
Bulk density	: 200 - 240 kg/m <sup>3</sup>
Relative vapour density	: No data available
Particle characteristics	
Particle size	: 10 - 60 µm Particle size

### 9.2 Other information

Explosives	: Not classified as explosive.
Oxidizing properties	: none

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Hazardous reactions : no information available

### 10.4 Conditions to avoid

Conditions to avoid : no information available

### 10.5 Incompatible materials

Materials to avoid : no information available

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### 10.6 Hazardous decomposition products

in the event of fire: See section 5.

No decomposition if used as directed.

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## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

Acute oral toxicity : No data available  
Acute inhalation toxicity : No data available  
Acute dermal toxicity : No data available  
Acute toxicity (other routes of administration) : No data available

##### Components:

##### **tin dioxide:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
GLP: yes  
Remarks: (ECHA)

Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): Exposure time: 4 h  
Test atmosphere: aerosol  
Method: OECD Test Guideline 403  
GLP: yes  
Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

#### Skin corrosion/irritation

##### Product:

No data available

##### Components:

##### **tin dioxide:**

Method : OECD Test Guideline 431  
Result : No skin irritation  
GLP : yes  
Remarks : (ECHA)

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### Serious eye damage/eye irritation

#### Product:

No data available

#### Components:

##### **tin dioxide:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

### Respiratory or skin sensitisation

#### Product:

No data available

#### Components:

##### **tin dioxide:**

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitisation.  
GLP : yes

Remarks : (ECHA)

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : No data available  
Genotoxicity in vivo : No data available

### Carcinogenicity

#### Product:

No data available

### Reproductive toxicity

#### Product:

Effects on fertility : No data available  
Effects on foetal development : No data available

#### Components:

##### **tin dioxide:**

Effects on fertility : Test Type: Screening for reproductive/developmental toxicity  
Species: Rat, male and female  
Application Route: Oral

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General Toxicity - Parent: NOAEC: 800 mg/kg body weight  
General Toxicity F2: NOAEC: 800 mg/kg body weight

Effects on foetal development : Species: Rat, female  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 625 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: 625 mg/kg body weight

### STOT - single exposure

**Product:**

No data available

### STOT - repeated exposure

**Product:**

No data available

### Repeated dose toxicity

**Product:**

No data available

**Components:**

**tin dioxide:**

Species : Rat, male and female  
NOAEL : 510 mg/kg  
Application Route : Oral  
Exposure time : 4 w  
Number of exposures : daily

### Aspiration toxicity

**Product:**

No data available

## 11.2 Information on other hazards

### Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

**Product:**

Remarks : The results of animal experiments using pigments of this type indicate no toxicologically relevant properties. Since the substance is poorly absorbed, no systemic effects are to be antic-

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- ipated. Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions. The individual test results were as follows: skin tolerance (rabbit): no irritant effect; eye irritation test (rabbit): no irritant effect; LD<sub>50</sub> (oral, rat): not determinable; all animals still alive after 5,000 mg/kg.
- Remarks : Subchronic toxicity (rat): no appreciable findings up to 20 000 ppm.
- Remarks : LC<sub>50</sub> (inhalational, rat):> 10.1 ml/l/4 h
- Remarks : Handle in accordance with good industrial hygiene and safety practice.
- 

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

No data available

#### Components:

##### **tin dioxide:**

- Toxicity to fish : NOEC (Oncorhynchus mykiss (rainbow trout)): 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: (above the solubility limit in the test medium) (ECHA)
- LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: (above the solubility limit in the test medium) (ECHA)
- Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Remarks: (above the solubility limit in the test medium) (own results)
- EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Remarks: (above the solubility limit in the test medium) (own results)
- Toxicity to algae/aquatic : NOEC (Desmodesmus subspicatus (green algae)): 9.77 mg/l
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plants  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: (above the solubility limit in the test medium) (ECHA)

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Test Type: static test  
Method: OECD Test Guideline 209  
Remarks: (above the solubility limit in the test medium) (ECHA)

### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

## 12.2 Persistence and degradability

### Product:

No data available

### Components:

#### tin dioxide:

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

## 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Product:**

Additional ecological information : No ecological problems are to be expected when the product is handled and used with due care and attention.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Notice Directive on waste 2008/98/EC.

Waste should not be disposed of by release to sewers.

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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## SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

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## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

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UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

Seveso III Directive (2012/18/EU) implemented by Control of Major Accident Hazards Regulations 2015 (COMAH) : Not applicable  
Storage class (TRGS 510) : 10 - 13, Other liquids and solids

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

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## SECTION 16: Other information

### Full text of H-Statements

### Full text of other abbreviations

91/322/EEC : Europe. Commission Directive 91/322/EEC on establishing indicative limit values  
ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
91/322/EEC / TWA : Limit Value - eight hours  
ACGIH / TWA : 8-hour, time-weighted average  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office

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of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

**Decimal notation: "Thousands" places are identified with a comma (example: 2,000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a dot (example: 1.35 g/cm<sup>3</sup>).**

### Revision Note

Safety datasheet sections : SECTION 2 (Classification and labeling)  
which have been updated

### Disclaimer

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

GB / EN