

# CROMARTIE COLOURS

## SAFETY DATA SHEET (SDS)

Version: 01

Date of Issue: June 20, 2024

According to: Regulation (EC) No. 1272/2008

Regulation (EC) No. 1907/2006

### Section 1 – Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

Product Name: Cromartie Colors Gloss Glaze

Product Colors: White, Under the Sea, Sunflower, Peach a Boo, Marmalade Orange, Red Robin, Pale Pink, Powder Blue, Midnight Blue, Granny Smith, Mr Grey, Elephant Grey, Skinny Dip, Chocolate Buttons, Post Box Red, Wisteria, Mauvelicious, Cappuccino, Lilac, Cromartie Purple, Purple Iris, Teal Bird, Carmel, Shell Pink, Blush Pink, Rouge Pink, Limon Cello, Aegean Blue, Nemo Orange, Lime Juice, Black.

Product sizes: 16 oz.

Other Means of Identification: None known

Product Description: Colored liquid glaze formulations intended to be applied using a brush and then placed in a kiln for glaze firing.

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

Relevant identified use(s): The product is intended for general (adults) arts and crafts purposes.

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

Manufacturer/Supplier: Cromartie Hobbycraft Ltd.  
Park Hall Road, Longton  
Stoke-on-Trent, Staffordshire  
ST3 5AY  
[www.cromartiehobbycraft.co.uk](http://www.cromartiehobbycraft.co.uk)

Business Phone: 01782 319435  
Email: [enquiries-cromartiehobbycraft@outlook.com](mailto:enquiries-cromartiehobbycraft@outlook.com)

#### 1.4 Emergency telephone number

Emergency Telephone: Contact the local poison control centre.

### Section 2 – Hazard(s) Identification

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

According to: Regulation (EC) No. 1272/2008 [CLP]

	Health	Environment	Physical
Classification:	Not classified	Not classified	Not classified
SCL and/or M-factor	N/A	N/A	N/A
Classification Procedure	N/A	N/A	N/A

#### 2.2. Label elements

Label Pictogram: None

Signal Word: None

Hazard Statement: None

Precautionary Statement: None

Supplemental Hazard Information:

- EUH208: Contains benzisothiazol-3(2H)-one. May produce an allergic reaction.

### 2.3. Other hazards

- The product is not expected to be an endocrine disruptor.
- The product is not expected to meet vPvB or PBT criteria in accordance with Regulation (EC) No. 1907/2006, Annex XIII.
- No other hazards have been identified for this product.

## Section 3 – Composition / Information on Ingredients

### 3.1 Substances

The product is a mixture and not a substance.

### 3.2 Mixture

Chemical Name	CAS No.	EC No.	% By Weight <sup>a</sup>	GHS Hazards
Zinc pyrithione	13463-41-7	236-671-3	up to 0.014%	H301: Acute toxicity - oral (Category 3); H318: Eye damage (Category 1); H330: Acute toxicity – inhalation (Category 2); H372: Specific target organ toxicity (repeated exposure, Category 1); H360D: Reproductive toxicity (Category 1B) (May damage the unborn child); H400: Hazardous to the aquatic environment - short term (acute) hazard (Category 1); H410: Hazardous to the aquatic environment – long term (chronic) hazard (Category 1)
Zinc oxide	1314-13-2	215-222-5	up to 0.72%	H371: Specific target organ toxicity (single exposure, Category 2, gastrointestinal tract); H400: Hazardous to the aquatic environment - short term (acute) hazard (Category 1); H410: Hazardous to the aquatic environment - long term (chronic) hazard (Category 1)
Crystalline silica	14808-60-7	238-878-4	up to 1.49%	H350: Carcinogenicity (Category 1) (Inhalation); H372: Specific target organ toxicity (repeated exposure, Category 1, lungs)
Titanium dioxide	13463-67-7	236-675-5	up to 0.17%	H351: Carcinogenicity (Category 2) (Inhalation)

<sup>a</sup> Concentrations are calculated as a maximum across all products, rather than by color.

The other ingredients in the product are either considered non-hazardous or are below their respective GHS cut-off values/concentration limits in the final product and were therefore not disclosed in the SDS.

The product may contain titanium dioxide (CAS No. 13463-67-7), and crystalline silica (CAS No. 1333-86-4) which may be hazardous when inhaled. Given the nature and physical form of the product (*i.e.*, liquid glaze), airborne respirable particles would not likely be released from the product and therefore the hazard is not relevant to the product. It was assumed that the glaze will not be sanded after it has been fired in the kiln.

	Specific Concentration Limit	Multiplying-Factor	Acute Toxicity Estimate
<b>Foundations Glazes</b>	N/A	N/A	>2000 mg/kg (oral/dermal) >20 mg/L (inhalation)

## Section 4 – First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** No specific first aid measures are required. If irritation occurs, remove contact lenses if present and easy to do – rinse eyes with water. If eye irritation persists: Get medical advice/attention.

**Skin contact:** No specific first aid measures are required. If irritation occurs, wash with plenty of water and soap. Take off contaminated clothing. If skin irritation persists: Get medical advice/attention.

**Inhalation:** Inhalation route of exposure is not anticipated with intended use. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Seek medical attention if in doubt.

**Ingestion:** No specific first aid measures are required. Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if in doubt.

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

- Refer to **Section 11 - Toxicological Information**.

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

- Not required.

## Section 5 – Fire Fighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media:** Use extinguishing media suitable for surrounding area if material is involved in a fire (e.g., water fog, foam, dry chemical or carbon dioxide).

**Unsuitable Extinguishing Media:** None known.

### 5.2 Special hazards arising from the substance or mixture Hazardous combustion products:

- Irritating vapours or fumes may form if product is involved in fire.
- Also see **Section 10 - Stability and Reactivity**.

### 5.3 Advice for firefighters

- Wear a self-contained breathing apparatus to protect against potentially irritating fumes.

## Section 6 – Accidental Release Measures

### 6.1 Personal precautions, protective equipment (PPE) and emergency procedures

**Personal Precautions:** Ventilate area if spilled in confined space or other poorly ventilated areas. Observe PPE advice in **Section 8 - Exposure Controls/Personal Protection**.

**Emergency Procedures:** Not available.

### 6.2 Environmental precautions

- Prevent entry and contact with soil, drains, sewers, and waterways. Inform relevant local/regional/national/international authorities.

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

**Containment/Clean-up Measures:** Contain spill if safe to do so. Collect recoverable product and place in a designated container for recycle and/or disposal. Ventilate contaminated area thoroughly. Dispose of contents/container in accordance with local/regional/national/international regulations.

### 6.4 Reference to other sections

- Refer to **Section 8 - Exposure Controls/Personal Protection** and **Section 13 - Disposal Considerations**.

## Section 7 – Handling and Storage

### 7.1 Precautions for safe handling

- Wash hands thoroughly after handling.
- Wash contaminated clothing before reuse.
- Employees should be trained in the safe use and handling of chemical materials.
- Refer to **Section 8 - Exposure Controls/Personal Protection**.

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

- Keep container tightly closed to avoid spills.
- Keep in a cool dry place.

### 7.3 Specific end use(s)

- Refer to **Section 1.2 - Relevant identified uses.**

## Section 8– Exposure Controls / Personal Protection

### 8.1 Control Parameters:

**Occupational exposure limits:** Only vapours were considered to be foreseeable under conditions of normal use. Airborne particles, such as dust, are not foreseeable under conditions of normal use.

Chemical Name	CAS No.	ACGIH TLV TWA	OSHA PEL TWA	NIOSH REL TWA	DFG MAK TWA
Crystalline silica	14808-60-7	0.025 mg/m <sup>3</sup> R	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	N/A
Titanium dioxide	13463-67-7	10 mg/m <sup>3</sup> <sup>a</sup>	15 mg/m <sup>3</sup> <sup>b</sup>	N/A	0.3 mg/m <sup>3</sup> R <sup>c</sup>
Zinc oxide	1314-13-2	2 mg/m <sup>3</sup> <sup>a</sup>	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup> R
N/A – Not applicable		<sup>a</sup> Respirable particulate matter			
R – Measured as respirable fractions of the aerosol		<sup>b</sup> Total dust			
		<sup>c</sup> Multiplied with the material density			

**Note:** Titanium dioxide (CAS No. 13463-67-7) values listed above are related to non-ultrafine and non-nanoscale or finescale particles.

### 8.2 Exposure Controls:

#### Appropriate engineering controls

- No special requirements under ordinary conditions of use and with adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required.

### 8.3 Personal Protective Equipment

Note: Consider the concentration and amount of product at the workplace when selecting PPE. Use protective equipment as required.

**Respiratory:** Under normal conditions of use, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

**Eyes/Face:** If contact is likely, safety glasses with side shields are recommended.

**Hands:** Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur, wear chemically protective gloves.

**Body/Skin:** Gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material.

**Thermal Hazards:** None known.

#### Environmental

#### Exposure

**Controls:** Not available.

#### Hygiene

**measures:** Observe good industrial hygiene practices. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace and should be washed before reuse. When using the product do not eat, drink or smoke.

## Section 9 – Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Note: The data below are typical values and do not constitute a specification.

<b>Appearance:</b>			
<b>Physical state:</b>	Liquid	<b>Partition Coefficient n-octanol/water:</b>	Not available
<b>Color:</b>	See Section 1.1	<b>Auto-ignition temperature:</b>	Not available
<b>Odor/Odor threshold:</b>	None	<b>Decomposition temperature:</b>	Not available
<b>pH (as supplied):</b>	8 - 9	<b>Dynamic viscosity:</b>	Not available
<b>Melting/freezing point:</b>	Not available	<b>Molecular weight:</b>	Not available
<b>Boiling point/range:</b>	Not available	<b>Taste:</b>	Not available
<b>Flash point:</b>	Not available	<b>Explosive properties:</b>	Not available
<b>Evaporation rate:</b>	Not available	<b>Oxidizing properties:</b>	Not available
<b>Flammability:</b>	Not available	<b>Surface tension:</b>	Not available
<b>Upper/lower explosive limits:</b>	Not available	<b>Volatile component:</b>	Not available
<b>Vapor pressure:</b>	Not available	<b>Gas group:</b>	Not available
<b>Water solubility:</b>	Not available	<b>pH (as solution):</b>	Not available
<b>Vapor density (Air = 1):</b>	Not available	<b>VOC:</b>	Not available
<b>Specific gravity (Water = 1):</b>	Not available	<b>Particle size range:</b>	Not available
<b>Relative density:</b>	Not available		

### 9.2.1 Information with Regard to Physical Hazard Classes

<b>Explosives</b>	Not available
<b>Flammable gases</b>	Not available
<b>Aerosols</b>	Not available
<b>Oxidising gases</b>	Not available
<b>Gases under pressure</b>	Not available
<b>Flammable liquids</b>	Not available
<b>Flammable solids</b>	Not available
<b>Self-reactive substances and mixtures</b>	Not available
<b>Pyrophoric liquids</b>	Not available
<b>Pyrophoric solids</b>	Not available
<b>Self-heating substances and mixtures</b>	Not available
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Not available
<b>Oxidising liquids</b>	Not available
<b>Oxidizing solids</b>	Not available
<b>Organic peroxides</b>	Not available
<b>Corrosive to metals</b>	Not available
<b>Desensitised explosives</b>	Not available

### 9.2.2 Other Safety Characteristics

<b>Mechanical sensitivity</b>	Not available
<b>Self-accelerating polymerisation temperature</b>	Not available
<b>Formation of explosible dust/air mixtures</b>	Not available
<b>Acid/alkaline reserve; (e) evaporation rate</b>	Not available
<b>Miscibility</b>	Not available
<b>Conductivity</b>	Not available
<b>Corrosiveness</b>	Not available
<b>Gas group</b>	Not available
<b>Redox potential</b>	Not available
<b>Radical formation potential</b>	Not available
<b>Photocatalytic properties</b>	Not available

## Section 10 – Stability and Reactivity

### 10.1 Reactivity

- This material is not considered to be reactive under normal handling and storage conditions.

## 10.2 Chemical stability

- This material is considered stable under normal handling and storage conditions.

## 10.3 Possibility of hazardous reactions

- Not expected to occur under normal handling and storage conditions.

## 10.4 Conditions to avoid

- Exposure to high temperatures
- Strong acids
- Strong bases
- Strong oxidisers

## 10.5 Incompatible materials

- Strong acids
- Strong bases
- Strong oxidisers
- Strong reducing agents.

## 10.6 Hazardous decomposition products

- Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion. Irritating and toxic substances may be emitted upon combustion, burning, or decomposition of dry solids.

# Section 11 – Toxicological Information

## 11.1. Information on hazard classes:

**Likely routes of exposure:** Skin contact, incidental ingestion.

**Potential signs and symptoms:** None expected under conditions of normal use.

<b>Acute oral toxicity:</b>	Zinc pyrithione (CAS No. 13463-41-7) has been classified for acute oral toxicity (Category 3); however, product classification is not warranted based on the concentration of zinc pyrithione in the product and given the product ATE >2000 mg/kg.
<b>Acute dermal toxicity:</b>	The product is practically non-toxic based on human and/or animal studies. Dermal ATE >2000 mg/kg.
<b>Acute inhalation toxicity:</b>	Zinc pyrithione (CAS No. 13463-41-7) has been classified for acute inhalation toxicity (Category 2); however, product classification is not warranted based on the concentration of zinc pyrithione in the product and given that the product ATE is >20 mg/L (vapours).
<b>Skin corrosion/irritation:</b>	The ingredients >1% in the product are not skin irritants based on human and/or animal studies.
<b>Serious eye damage/irritation:</b>	Zinc pyrithione (CAS No. 13463-41-7) has been classified for eye damage (Category 1). Product classification is not required based on the concentration of zinc pyrithione in the product. The other ingredients >1% in the product are not damaging to the eyes or eye irritants based on available human and/or animal studies.
<b>Respiratory or skin sensitization:</b>	The ingredients >0.1% in the product are not sensitizing to the skin based on human and/or animal studies.
<b>Mutagenicity:</b>	The ingredients >0.1% in the product are not mutagenic based on human and/or animal studies.
<b>Carcinogenicity:</b>	Crystalline silica (airborne, unbound particles of respirable size) (CAS No. 14808-60-7) has been classified for carcinogenicity (Category 1).

Crystalline silica [listed as silica dust, crystalline, in the form of quartz or cristobalite (CAS No. 14808-60-7)] is listed as a carcinogen by IARC, NTP and ACGIH. Titanium dioxide (airborne, unbound particles of respirable size) (CAS No. 13463-67-7) has been classified for carcinogenicity (Category 2). Titanium dioxide (airborne, unbound particles of respirable size) (CAS No. 13463-67-7) is listed as a carcinogen by IARC and ACGIH. Product classification is not warranted for carcinogenicity based on a review of available data and the nature/physical form of the product (*i.e.*, liquid glaze). The other ingredients >0.1% in the product are not carcinogenic based on animal studies or no data identified for the components in this product.

**Reproductive Toxicity:**

Zinc pyrithione (CAS No. 13463-41-7) has been classified for reproductive toxicity (Category 1B; may damage fertility or the unborn child). Product classification is not warranted for reproductive toxicity given the concentration of zinc pyrithione in the product. The other ingredients >0.1% in the product are not reproductive toxicants based on human and/or animal studies.

**Specific target organ toxicity (single exposure):**

Zinc oxide (CAS No. 1314-13-2) has been classified for specific target organ toxicity (single exposure, Category 2; may cause irritation to the gastrointestinal tract through oral exposure). Product classification is not warranted for gastrointestinal irritation given the concentration of zinc oxide in the product and a review of available data. The other ingredients >1% in the product are not specific target organ toxicity (single exposure) toxicants based on human and/or animal studies.

**Specific target organ toxicity (repeated exposure):**

Crystalline silica (CAS No. 14808-60-7) has been classified for specific target organ toxicity (repeated exposure, Category 1; causes damage to lungs through prolonged or repeated exposure *via* inhalation). Product classification is not warranted for specific target organ toxicity given the nature/physical form of the product (*i.e.*, liquid glaze). Zinc pyrithione (CAS No. 13463-41-7) has been classified for specific target organ toxicity (repeated exposure, Category 1; causes damage to lungs through prolonged or repeated exposure). Product classification is not warranted for specific target organ toxicity given the concentration of zinc pyrithione in the product. The other ingredients >1% in the product are not specific target organ toxicity (repeated exposure) toxicants based on human and/or animal studies.

**Aspiration hazard:**

The ingredients >1% in the product are not aspiration hazards based on human and/or animal studies.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

- This product is not expected to be endocrine disrupting.

### 11.2.2 Information on other hazards

- No other hazards to note.

## References:

- ECHA (European Chemicals Agency). 2024. REACH Registered Substances Database. <https://echa.europa.eu/search-for-chemicals>
- IARC (International Agency for Research on Cancer). 2024. Agents Classified by the IARC Monographs, Volumes 1–129. <https://monographs.iarc.who.int/list-of-classifications/>
- NTP (National Toxicology Program). 2021. Report on Carcinogens, Fifteenth Edition.; Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service. <https://ntp.niehs.nih.gov/go/roc15>

## Section 12 – Ecological Information

### 12.1 Toxicity

- Acute aquatic toxicity (Categories 2 and 3) is outside the scope of Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006; therefore, product classification for acute aquatic toxicity (Category 2) is not mandatory.

Chemical Name	CAS No.	Species	Value
Zinc pyrithione <sup>a</sup>	13463-41-7	<i>Pimephales promelas</i>	LC <sub>50</sub> (96h): 0.0026 mg/L NOEC (96h): 0.011 mg/L
		<i>Daphnia magna</i>	LC <sub>50</sub> (48h): 0.0082 mg/L NOEC (48h): 0.011 mg/L
		<i>Selenastrum capricornutum</i>	EC <sub>50</sub> (120h): 0.028mg/L NOEC (120h): 0.0078 mg/L
Zinc oxide	1314-13-2	<i>Danio rerio</i>	LC <sub>50</sub> (96h): 1.793 mg/L (bulk ZnO) nominal EC <sub>50</sub> (84h): 2.066 mg/L (bulk ZnO) nominal
		<i>Danio rerio</i>	NOEC (32d): ≥540 µg/L nominal
		<i>Daphnia magna</i>	EC <sub>50</sub> (48h): >1.4 - <2.5 mg/L nominal
		<i>Daphnia magna</i>	EC <sub>10</sub> (21d): 127 µg/L nominal EC <sub>10</sub> (21d): 195 µg/L nominal

<sup>a</sup> According to Regulation (EC) No. 1272/2008 (CLP), M=1000 for acute aquatic effects and M=10 for chronic aquatic effects.

## 12.2 Persistence and degradability

- Zinc pyrithione (CAS No. 13463-41-7) is not persistent and rapidly degrades in water and the anaerobic sediment layer.
- No data available for the other ingredients in the product.

## 12.3 Bioaccumulative potential

- Zinc pyrithione (CAS No. 13463-41-7) is unlikely to bioaccumulate in aquatic species, either directly or through the food chain. The estimated log K<sub>ow</sub> is 0.99.
- No data available for the other ingredients in the product.

## 12.4 Mobility in Soil

- Zinc pyrithione (CAS No. 13463-41-7) is slightly (K<sub>oc</sub>=784) or very slightly (K<sub>oc</sub>=2347) mobile in soils and very slightly mobile (K<sub>oc</sub>=3597-10633) in sediments.
- No data available for the other ingredients in the product.

## 12.5 Results of PBT and vPvB assessment

- The ingredients in this product are not considered PBT or vPvB.

## 12.6 Endocrine disrupting properties

- This product is not expected to be endocrine disrupting.

## 12.7 Other adverse effects

- No further data available.

### Reference:

ECHA (European Chemicals Agency). 2024. REACH Registered Substances Database.  
<https://echa.europa.eu/search-for-chemicals>

## Section 13 – Disposal Considerations

### 13.1 Waste treatment methods

**Preparing wastes for disposal:** Use product for its intended purpose or recycle if possible. Waste should not be disposed of by release to sewers. Dispose of waste in accordance with local, regional, national, and/or international regulations.

**Contaminated Packaging:** Container packaging is not expected to exhibit hazards.

## Section 14 – Transport Information



Note: This product is not regulated as dangerous goods for transport.

<b>14.1 UN number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated
<b>14.3 Transport hazard class(es):</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	None
<b>14.6 Special precautions for user</b>	None
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable

## Section 15 – Regulatory Information

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

Note: The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in **Section 3**.

#### European Union

**Seveso Directive (2012/18/EU):** 2,3,7,8 TCDD (CAS No. 1746-01-6) is listed in Annex I, Part 2 as a named dangerous substance with an upper tier requirement of 0.001 tonnes. No other ingredients in this product are listed.

**Regulation (EC) No. 1005/2009, Annex I and II:** No ingredients in this product are listed.

**Regulation (EC) No. 689/2008, Annex I, Parts I-III:** Cadmium (listed as cadmium and its compounds) is listed in Annex I, Part 1 as a chemical subject to export notification procedure. The other ingredients in this product are not listed.

**Regulation (EC) No. 850/2004, Annex I:** No ingredients in this product are listed.

#### Germany:

**Wassergefährdungsklasse (water hazard class):** nwg – nicht wassergefährdende (non-hazardous to water)

#### International:

**IARC:** Crystalline silica [listed as silica dust, crystalline, in the form of quartz or cristobalite (CAS No. 14808-60-7)], cadmium and cadmium compound, and 2,3,7,8 TCDD (listed as 2,3,7,8-tetrachlorodibenzo-para-dioxinane) (CAS No. 1746-01-6) are classified as Group 1, carcinogenic to humans. Nitrotriacetic acid (CAS No. 139-13-9), titanium dioxide (CAS No. 13463-67-7), and lead are classified as Group 2B, possibly carcinogenic to humans. Hematite (CAS No. 1317-60-8) and cobalt [listed as cobalt(II) compounds] are classified as Group 3, not classifiable as to its carcinogenicity to humans. No other ingredients in this product are classified with respect to carcinogenicity.

### 15.2 Chemical Safety Assessment

- None available for the ingredients in this product.

## Section 16 – Other Information

### List of acronyms and abbreviations:

ACGIH: American conference of Governmental Hygienists	OSHA: Occupational Safety and Health Administration
CAS: Chemical Abstract Service Number	PBT: Persistent, Bioaccumulative and Toxic
CLP: Classification, Labelling and Packaging Regulation (EC) No. 1272/2008	PEL: Permissible Exposure Level
DFG MAK: Deutsche Forschungsgemeinschaft Maximale Arbeitsplatz-Konzentration	PPE: Personal Protective Equipment
EC: European Commission	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
ECHA: European Chemicals Agency	REL: Recommended exposure level
IBC: International Bulk Chemical	SDS: Safety Data Sheet
GHS: Global Harmonized System	TLV: Threshold limit value
IARC: International Agency for Research on Cancer	TWA: Time-weighted average
MARPOL: Maritime Pollution	UN: United Nations
NIOSH: National Institute for Occupational Safety & Health	vPvB: very Persistent, very Bioaccumulative

**References:**

ECHA (European Chemicals Agency). 2024. REACH Registered Substances Database.

<https://echa.europa.eu/search-for-chemicals>

IARC (International Agency for Research on Cancer). 2024. Agents Classified by the IARC Monographs, Volumes 1–129. <https://monographs.iarc.who.int/list-of-classifications/>

NTP (National Toxicology Program). 2021. Report on Carcinogens, Fifteenth Edition.; Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service. <https://ntp.niehs.nih.gov/go/roc15>

**Disclaimer:**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Revision Indicator:** This is a new Safety Data Sheet.

**Creation Date:** June 20, 2024