

# JUNGLE GEMS GLAZES

## SAFETY DATA SHEET (SDS)

Version: 01  
Date of Issue: June 17, 2024

According to: Australia Industrial Chemical Notification and Assessment Act (INCA Act), Australian Inventory of Chemical Substances (AICS), Work Health and Safety Act (WHS Act)

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

#### 1.1 Product identifier

Product Name: JUNGLE GEMS GLAZES  
Product Colors: ALLIGATOR (CG973)  
Product sizes: 4 fl. oz. (118 ml), 16 fl. oz. (473 mL)  
Other Means of Identification: None known  
Product Description: Coloured 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: Coloramics, LLC  
4077 Weaver Court South  
Hilliard, OH 43026 USA  
Business Phone: +1 (614) 876-1171

#### 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: Globally Harmonized System (GHS) of Classification and Labelling of Chemicals

Physical	Health	Environmental <sup>a</sup>
Not classified	H302: Acute oral toxicity (Category 4)	H413: Chronic aquatic toxicity (Category 4)

<sup>a</sup> Environmental hazards are outside the scope of the WHS Act; therefore, product classification for chronic aquatic toxicity (Category 4) is not mandatory.

#### 2.2. Label elements

Label Pictogram:



Signal Word: Warning

## Hazard statements & Precautions:

### Acute oral toxicity (Category 4) (H302)

#### Harmful if swallowed.

**P264:** Wash hands thoroughly after handling.

**P270:** Do not eat, drink or smoke when using this product.

**P301 + P317:** IF SWALLOWED: Get medical help.

**P330:** Rinse mouth.

**P501:** Dispose of contents/container in accordance with local/regional/national/ and/or international regulations.

### Chronic aquatic toxicity (Category 4) (H413)

#### May cause long lasting harmful effects to aquatic life.

**P273:** Avoid release to the environment.

**P501:** Dispose of contents/container in accordance with local, regional, national, and/or international regulation.

- <sup>a</sup> Environmental hazards are outside the scope of the WHS Act; therefore, product classification for chronic aquatic toxicity (Category 4) is not mandatory.

**Supplemental Hazard Information:** None

## 2.3. Other hazards

- No other hazards have been identified for this product.

## Section 3 – Composition / Information on Ingredients

### 3.1 Substance

The product is a mixture and not a substance.

### 3.2 Mixture

Chemical Name	CAS No.	EC No.	% Concentration	GHS Hazards
Barium	7440-39-3	231-149-1	N/A <sup>a</sup>	H301: Acute oral toxicity (Category 3); H330: Acute inhalation toxicity (Category 2); H318: Eye damage (Category 1); H314: Skin corrosion (Category 1)
Zinc pyrrhione	13463-41-7	236-671-3	≤ 0.0059%	H301: Acute oral toxicity (Category 3); H318: Eye damage (Category 1); H330: Acute inhalation toxicity (Category 2); H372: Specific target organ toxicity (repeated exposure, Category 1); H360D: Reproductive toxicity (Category 1B) (May damage the unborn child); H400: Acute aquatic toxicity (Category 1); H410: Chronic aquatic toxicity (Category 1)
Crystalline silica	14808-60-7	238-878-4	≤ 0.8695%	H350: Carcinogenicity (Category 1A) (inhalation); H372: Specific target organ toxicity (repeated exposure, Category 1 - lungs)
Titanium dioxide	13463-67-7	236-675-5	≤ 0.1037%	H351: Carcinogenicity (Category 2) (inhalation)
Cobalt (II, III) oxide	1308-06-1	215-157-2	≤ 0.2881%	H334: Respiratory sensitization (Category 1B); H412: Chronic aquatic toxicity (Category 3)

<sup>a</sup> The colors, ALLIGATOR (CG973), is classified for acute oral toxicity based on barium solubility testing. The precise concentration of barium in this color is not available.

N/A Not available

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. 14808-60-7) 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.

## Section 4 – First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and immediately flush eyes with water. If eye irritation persists, contact medical advise/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:** No specific first aid measures are required. 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:** IF SWALLOWED: Get emergency medical help immediately. Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

### 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 vapours or 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:** No specific precautions required. Keep unauthorized personnel away.

### 6.2 Environmental precautions:

- Prevent entry and contact with soil, drains, sewers, and waterways. Inform relevant local/regional/national/international authorities. Prevent further leakage or spillage if it is safe to do so.

### 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
Barium, soluble compounds (except barium sulfate)	7440-39-3	N/A	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	N/A
Silica, crystalline, mixed respirable (quartz, cristobalite, tridymite)	14808-60-7	0.025 mg/m <sup>3</sup> <sup>a</sup>	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> <b>R</b> <sup>c</sup>
N/A – Not applicable <b>R</b> – Measured as respirable fractions of the aerosol			<sup>a</sup> Respirable particulate matter <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 <b>Section 1.1</b>	<b>Auto-ignition temperature:</b>	Not available
<b>Odor/Odor threshold:</b>	None	<b>Decomposition temperature:</b>	Not available
<b>pH (as supplied):</b>	8.0 – 9.0	<b>Dynamic viscosity:</b>	Not available
<b>Melting/freezing point:</b>	32°F	<b>Molecular weight:</b>	Not available
<b>Boiling point/range:</b>	212°F	<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 Other information

- No further data 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

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

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

<b>Acute oral toxicity:</b>	Barium (CAS No. 7440-39-3) and zinc pyrithione (CAS No. 13463-41-7) have been classified for acute oral toxicity (Category 3). Product classification is warranted for acute oral toxicity (Category 4) based on barium solubility testing.
<b>Acute dermal toxicity:</b>	The product is practically non-toxic based on human and/or animal studies. The dermal ATE for the whole product is >5000 mg/kg.
<b>Acute inhalation toxicity:</b>	Barium (CAS No. 7440-39-3) and zinc pyrithione (CAS No. 13463-41-7) have been classified for acute inhalation toxicity (Category 2). 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>	Barium (CAS No. 7440-39-3) and zinc pyrithione (CAS No. 13463-41-7) have been classified for eye damage (Category 1). Barium (CAS No. 7440-39-3) has been classified for skin corrosion (Category 1). Product classification is not warranted based on the concentration of the hazardous ingredients and a review of available data. The other ingredients >1% in the product are not eye irritants based on human and/or animal studies.
<b>Respiratory or skin sensitization:</b>	Cobalt (II, III) oxide (CAS No. 1308-06-1) has been classified for respiratory sensitization (Category 1B). Product classification is not warranted for respiratory sensitization based on a review of the available data and the form of cobalt present in the product ( <i>i.e.</i> , cobalt is bound to a matrix/complex which reduces the availability of cobalt in the body). The other 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). Titanium dioxide (CAS No. 13463-67-7) (airborne, unbound particles of respirable size) has been classified for carcinogenicity (Category 2). Crystalline silica (listed as silica dust, crystalline, in the form of quartz or cristobalite) is listed as a Group 1 carcinogen by IARC. Titanium dioxide is listed as a Group 2B carcinogen by IARC. Crystalline silica [listed as silica, crystalline (respirable size) / silica, crystalline — $\alpha$ -quartz and cristobalite] and titanium dioxide are also listed as carcinogens by NTP 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>i.e.</i> , liquid glaze). It was assumed that the glaze will not be sanded after it has been fired in the kiln. 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 this effect 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):**

The 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 the lungs through prolonged or repeated exposure). Product classification is not warranted for specific target organ toxicity based on a review of available data and the nature/physical form of the product (*i.e.*, liquid glaze). It was assumed that the glaze will not be sanded after it has been fired in the kiln. Zinc pyrithione (CAS No. 13463-41-7) has been classified for specific target organ toxicity (repeated exposure, Category 1; causes damage to the organs 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.

**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

- Environmental hazards are outside the scope of the WHS Act. Based on the criteria outlined in the 10th revision of the GHS, the product is classified for acute aquatic toxicity (Category 2) and chronic aquatic toxicity (Category 4).

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): 0.0011 mg/L
		<i>Daphnia magna</i>	LC <sub>50</sub> (48h): 0.0082 mg/L NOEC (48h): 0.0011 mg/L
		<i>Selenastrum capricornutum</i>	EC <sub>50</sub> (120h): 0.028mg/L NOEC (120h): 0.0078 mg/L
Cobalt (II, III) oxide	1308-06-1	<i>Oncorhynchus mykiss</i>	LC <sub>50</sub> : 0.8 mg Co/L
		<i>Danio rerio</i>	LC <sub>50</sub> : 85 mg Co/L
		<i>Cladoceran</i>	LC <sub>50</sub> : 0.61 mg Co/L
		<i>Lemna minor</i>	EC <sub>50</sub> : 52 µg/L

<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  $K_{ow}$  is 0.99.
- Cobalt does not biomagnify, but rather exhibits biodilution, particularly in upper levels of both aquatic and terrestrial food chains. Cobalt (II, III) oxide (CAS No. 1308-06-1) has a bioconcentration factor of 180 – 4000.
- No data available for the other ingredients in the product.

### 12.4 Mobility in Soil

- Zinc pyrithione (CAS No. 13463-41-7) is slightly ( $K_{oc}=784$ ) or very slightly ( $K_d=2347$ ) mobile in soils and very slightly mobile ( $K_{oc}=3597-10633$ ) 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 Other adverse effects

- No further data available.

#### References:

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. Dispose of waste in accordance with local, regional, national, and/or international regulations. The empty container has residues which may exhibit hazards of the product.

**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.

14.1 UN number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es):	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazards	None
14.6 Special precautions for user	None
14.7 Maritime transport in bulk according to IMO instruments	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 – Composition / Information on Ingredients**.

#### Australia

**Australian Inventory of Chemical Substances (AICS):** Nepheline syenite (CAS No. 37244-96-5), sapphire (CAS No. 1317-82-4), vanadium (CAS No. 1314-34-7), and 2,3,7,8 TCDD (CAS No. 1746-01-6) are not listed in AICS. All other ingredients in this product can be imported without notification.



**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act 1989 (as amended):** Zinc pyrithione (CAS No. 13463-41-7) (listed as pyrithione zinc), cupric oxide (CAS No.1317-38-0) (listed copper oxides), and cuprous oxide (CAS No.1317-39-1) (listed copper oxides) are listed under Schedule 5 (Caution) and Schedule 6 (Poisons). Given the concentration present in the product, these restrictions do not apply. Cadmium (listed as cadmium compounds) is listed under Schedule 6 (Poisons). Given the concentration present in the product, this restriction does not apply. Mercury is listed under Schedule 7 (Dangerous poisons). Given the concentration present in the product, this restriction does not apply. Methanol (CAS No. 67-56-1) is listed under Schedule 5 (Caution), Schedule 6 (Poisons), and Schedule 10 (Substances of such danger to health as to warrant prohibition of supply and use). Given the concentration present in the product, these restrictions do not apply.

**Agricultural and Veterinary Chemicals Act 1994:** The product is not intended for agricultural or veterinary use.

**Prohibition / Licensing Requirements:** There are no applicable prohibition or notification / licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation. **International:**

**IARC:** Crystalline silica (CAS No. 14808-60-7) (listed as silica dust, crystalline, in the form of quartz or cristobalite), 2,3,7,8 TCDD (CAS No. 1746-01-6) (listed as 2,3,7,8-Tetrachlorodibenzo-para-dioxin), cadmium (listed as cadmium and cadmium compounds), chromium [listed as chromium (VI) compounds], and nickel compounds are listed as Group 1, carcinogenic to humans. Cobalt is listed as Group 2A, probably carcinogenic to humans. Titanium dioxide (CAS No. 13463-67-7), vanadium oxide (CAS No. 1314-62-1) (listed as vanadium pentoxide), and lead are listed as Group 2B, possibly carcinogenic to humans. Cobalt (II,III) oxide (CAS No. 1308-06-1), silicon dioxide (CAS No. 7631-86-9) (listed as silica, amorphous), chromium (listed as chromium (III) compounds), and mercury (listed as mercury and inorganic mercury compounds) are listed as Group 3, unclassifiable as to carcinogenicity in 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 Industrial Hygienists	NIOSH: National Institute for Occupational Safety & Health
ATE: Acute Toxicity Estimate	NTP: National Toxicology Program
CAA: Clean Air Act	OSHA: Occupational Safety and Health Administration
CAS: Chemical Abstract Service Number	PBT: Persistent, Bioaccumulative and Toxic
CERCLA: Comprehensive Environmental Response and Liability Act	PEL: Permissible Exposure Level
CWA: Clean Water Act	PPE: Personal Protective Equipment
DSL: Domestic Substance List	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
DFG MAK: Deutsche Forschungsgemeinschaft Maximale Arbeitsplatzkonzentration	REL: Recommended exposure level
EC: European Commission	SARA: Superfund Amendment and Reauthorization Act
ECHA: European Chemicals Agency	SDS: Safety Data Sheet
GHS: Global Harmonized System	TLV: Threshold limit value
IARC: International Agency for Research on Cancer	TSCA: Toxic Substances Control Act
IMO: International Maritime Organization	TWA: Time-weighted average
MARPOL: Maritime Pollution	UN: United Nations
N/A: Not applicable	VOC: Volatile Organic Compound
NDSL: Non-Domestic Substance List	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 17, 2024