

## Safety Data Sheet

In accordance with REACH Regulation EC No.1907/2006

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

#### 1.1. Product identifier

**Product name:** Charcoal Powder  
**CAS number:** 7440-44-0  
**EINECS number:** 931-328-0  
**Synonyms:** Activated Carbon  
**INCI name:** Charcoal Powder

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

**Use of substance/mixture:** Liquid and vapor applications (purification, decolorization, separation, catalyst and deodorization).  
**Uses advised against:** None known

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

**Company name:** Bath and Body Base Ltd  
2A Laurel Way  
Bishop Auckland  
Co. Durham  
DL14 7NF  
**Tel:** 07493 064263  
**Email:** technical@bathandbodybase.com

#### 1.4. Emergency telephone number

**Emergency tel:** 07493 064263

### Section 2: Hazards identification

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

**Classification under CLP:** Not a hazardous substance according to Regulation (EC) 1272/2008 (CLP), its various amendments and adaptations and Directive 67/548/EEC.

#### 2.2. Label elements

**Hazard statements:** None  
**Signal words:** None  
**Precautionary statements:** None

### 2.3. Other hazards

This substance is classified as hazardous as a combustible dust by the United States 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Hazardous Products Regulation (HPR) 2015. The signal word, hazard statement and precautionary statements in the United States and Canada are: **WARNING** May form combustible dust concentrations in air. Keep away from all ignition sources including heat, sparks and flame. Prevent dust accumulations to minimize explosion hazard.

Activated carbon (especially when wet) can deplete oxygen from air in enclosed spaces, and dangerously low levels of oxygen may result. Prior to entering a confined space that contains or previously contained activated carbon, the space should be evaluated for oxygen and carbon monoxide concentrations, and any other hazards, by a qualified person.

Workers should also take appropriate precautions when dealing with spent (used) activated carbons which may exhibit hazardous properties associated with the adsorbed materials.

Avoid dust formation. Powdered material may form an explosible dust-air mixture. If transferring product under pressure, avoid generation of dust if an ignition source is present. Activated carbons have high surface area which may cause self-heating during oxidation. See Section 5.

Do not generate dust because airborne respirable crystalline silica may be generated.

<b>Principle routes of exposure:</b>	Inhalation, eye contact, skin contact.
<b>Eye contact:</b>	May cause mechanical irritation. Avoid contact with eyes.
<b>Skin contact:</b>	May cause mechanical irritation. Avoid contact with skin.
<b>Inhalation:</b>	Dust may be irritating to respiratory tract. Provide appropriate local exhaust ventilation at machinery and at places where dust can be generated. See also Section 8.
<b>Ingestion:</b>	Adverse health effects are not known or expected under normal use.
<b>Carcinogenicity:</b>	See Section 11.
<b>Target organ effects:</b>	Lungs, eyes, skin.
<b>Medical conditions aggravated by exposure:</b>	Asthma, respiratory disorder, skin disorders.
<b>Potential environmental effects:</b>	None known. See also Section 12.

## Section 3: Composition/information on ingredients

### 3.1. Substances

<b>Chemical name:</b>	Activated Carbon
<b>EC no:</b>	931-328-0
<b>CAS no:</b>	7440-44-0
<b>Weight %:</b>	100
<b>Classification according to Directive 67/548/EEC or 1999/45/EC:</b>	Not applicable.
<b>Classification according to Regulation (EC) No. 1272/2008 [CLP]:</b>	Not applicable.
<b>REACH registration number:</b>	01-2119488894-16
<b>Other information:</b>	This product, which is manufactured from a naturally occurring raw material(s), contains <5% total crystalline silica (quartz, CAS RN 14808-60-7).

**Section 4: First aid measures****4.1. Description of first aid measures**

<b>Skin contact:</b>	Wash thoroughly with soap and water. Seek medical attention if symptoms develop.
<b>Eye contact:</b>	Flush eyes immediately with large amounts of water for 15 minutes. Seek medical attention if symptoms develop.
<b>Ingestion:</b>	Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	If cough, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures.

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

<b>Symptoms:</b>	The most important known symptoms and effects are described in Section 2 and/or in Section 11.
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**4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians:</b>	Treat symptomatically.
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**Section 5: Fire-fighting measures****5.1. Extinguishing media**

<b>Suitable extinguishing media:</b>	Use foam, carbon dioxide (CO <sub>2</sub> ), dry chemical or water spray. A fog is recommended if water is used.
<b>Unsuitable extinguishing media:</b>	DO NOT USE a solid water stream as it may scatter and spread fire. DO NOT USE high pressure media which could cause formation of a potentially explosible dust-air mixture. In the event of a fire, spreading large amounts of activated carbon is not recommended due to the risk of creating uncontrolled dust emissions.

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

<b>Specific hazards arising from the chemical:</b>	Burning produces irritant fumes. If transferring product under pressure, avoid generation of dust if an ignition source is present.  Activated carbons have high surface area which may cause self-heating during oxidation. An adequate air gap between packages of activated carbon is recommended to reduce risk of propagation of the event. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame.
<b>Hazardous combustion products:</b>	Materials allowed to smolder for long periods in enclosed spaces may produce amounts of carbon monoxide which reach the lower explosive limit (carbon monoxide LEL = 12.5% in air). Used activated carbon may produce additional combustion products which are based on the substance(s) adsorbed. Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).

**5.3. Advice for fire-fighters**

<b>Special protective equipment for fire-fighters:</b>	Wear suitable protective equipment. In the event of fire, wear self-contained breathing apparatus.
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**Section 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

- Personal precautions:** Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment. See also Section 8.
- For emergency responders:** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

- Environmental precautions:** No special environmental precautions required. Local authorities should be advised if spillages cannot be contained.

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

- Methods for containment:** Prevent further leakage or spillage if safe to do so.
- Methods for cleaning up:** Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. If the spilled material contains dust or has the potential to create dust, use explosion-proof vacuums and/or cleaning systems suitable for combustible dusts. Use of a vacuum with high efficiency particulate air (HEPA) filtration is recommended. Do not create a dust cloud by using a brush or compressed air. Pick up and transfer to properly labelled containers. Spent granular activated carbon may be recyclable. Dispose of virgin (unused) carbon (surplus or spillage) in a facility permitted for non-hazardous wastes. Spent (used) carbon should be disposed of in accordance with applicable laws. Do not reuse empty bags: dispose of in a facility permitted for non-hazardous wastes. See Section 13.

**6.4. Reference to other sections**

- Reference to other sections:** Refer to Section 8 and 13 for more information.

**Section 7: Handling and storage****7.1. Precautions for safe handling**

- Advice on safe handling:** Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Provide appropriate local exhaust ventilation at machinery and at places where dust can be generated. Do not create a dust cloud by using a brush or compressed air. Dust may form explosible mixture in air.
- Activated carbons have high surface area which may cause self-heating during oxidation. Take precautionary measures against static discharges. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations. Fine dust is capable of penetrating electrical equipment and may cause electrical shorts. If hot work (welding, torch cutting etc.) is required the immediate work area must be cleared of product and dust.
- General hygiene considerations:** Handle in accordance with good industrial hygiene and safety practice.

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

<b>Storage conditions:</b>	Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Do not store together with strong oxidizing agents. Do not store together with volatile chemicals as they may be adsorbed onto product. Keep in properly labelled containers. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosible mixture if they are released in the atmosphere in sufficient concentrations. Prior to entering a confined space that contains or previously contained activated carbon, the space should be evaluated for oxygen and carbon monoxide concentrations, and any other hazards, by a qualified person.
<b>Incompatible materials:</b>	Strong oxidizing agents. Strong acids.

**7.3. Specific end use(s)**

<b>Risk Management Measures (RMM):</b>	Per Article 14.4 of the REACH Regulation no exposure scenario has been developed as the substance is not hazardous.
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**Section 8: Exposure controls/personal protection**
**8.1. Control parameters**

<b>Exposure guidelines:</b>	Exposure limits for components or similar components are stated below.	
<b>Dust or particulates not otherwise specified:</b>	Austria MAK:	10mg/m <sup>3</sup> , STEL 2x30 min, Inhalable dust 5mg/m <sup>3</sup> , TWA, Inhalable dust
	Belgium:	10mg/m <sup>3</sup> , TWA, Inhalable 3mg/m <sup>3</sup> TWA, Respirable
	Canada (Saskatchewan):	10mg/m <sup>3</sup> , TWA, Inhalable 3mg/m <sup>3</sup> TWA, Respirable
	China:	8mg/m <sup>3</sup> , TWA 10mg/m <sup>3</sup> , STEL
	France:	10mg/m <sup>3</sup> , TWA Inhalable dust 5mg/m <sup>3</sup> , TWA Respirable dust
	Germany TRGS 900:	10mg/m <sup>3</sup> , TWA, Inhalable 3mg/m <sup>3</sup> , Respirable fraction
	Hong Kong:	10mg/m <sup>3</sup> , TW
	Ireland:	10mg/m <sup>3</sup> , TWA, Total inhalable 4mg/m <sup>3</sup> , TWA, Respirable
	Italy:	10mg/m <sup>3</sup> , TWA, Inhalable 3mg/m <sup>3</sup> , TWA, Respirable
	Japan:	3mg/m <sup>3</sup> TWA, Respirable
	Malaysia:	10mg/m <sup>3</sup> , TWA, Inhalable 3mg/m <sup>3</sup> , TWA, Respirable
	The Netherlands:	3.5mg/m <sup>3</sup> , Inhalable
	Spain:	10mg/m <sup>3</sup> , VLA, Inhalable 3mg/m <sup>3</sup> , VLA, Respirable

	Sweden:	10mg/m <sup>3</sup> , NGV, Total inhalable 5mg/m <sup>3</sup> , NGV, Respirable
	United Kingdom WEL:	10mg/m <sup>3</sup> , TWA, Total Inhalable dust 4mg/m <sup>3</sup> , TWA, Respirable dust
	US ACGIH PNOS:	10mg/m <sup>3</sup> , TWA, Inhalable 3mg/m <sup>3</sup> , TWA, Respirable
	US OSHA PEL:	15mg/m <sup>3</sup> , TWA, Total dust 5mg/m <sup>3</sup> , TWA, Respirable
<b>Silica, Crystalline (Quartz) CAS RN 14808-60-7:</b>	Austria MAK:	0.15mg/m <sup>3</sup> , TWA (Respirable)
	Belgium:	0.1mg/m <sup>3</sup> , TWA (Alveolar fraction)
	Denmark:	0.1mg/m <sup>3</sup> , TWA (Respirable)
	Finland:	0.05mg/m <sup>3</sup> , TWA (Respirable)
	France:	0.1mg/m <sup>3</sup> , VME (Alveolar fraction)
	Ireland:	0.1mg/m <sup>3</sup> , TWA (Respirable)
	Italy:	0.025mg/m <sup>3</sup> , TWA (Respirable)
	Japan:	(3mg/m <sup>3</sup> )/(1.19%SiO <sub>2</sub> + 1) (Respirable)
	Switzerland:	0.15mg/m <sup>3</sup> , TWA (Respirable)
	UK WEL:	0.1mg/m <sup>3</sup> , TWA (Respirable)
	US OSHA PEL:	0.05mg/m <sup>3</sup> (Respirable)
	US ACGIH TLV:	0.025mg/m <sup>3</sup> (Respirable)

MAK: Maximale Arbeitsplatzkonzentration (Maximum Workplace Concentration)  
NGV: Nivå Gräns Värde (Level Limit Value)  
PEL: Permissible Exposure Limit  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Value  
TRGS: Technische Regeln für Gefahrstoffe (Technical Rule for Hazardous Materials)  
TWA: Time Weighted Average  
US ACGIH: United States American Conference of Governmental Industrial Hygienists  
US OSHA: United States Occupational Safety and Health Administration  
VLA: Valore Limite Ambientales (Environmental Limit Value)  
WEL: Workplace Exposure Limit

**Derived No Effect Level (DNEL):** As required under the EU Registration, Evaluation and Authorization of Chemicals (REACH) Regulation, the Activated Carbon REACH Consortium developed the following Derived No Effect Levels (DNELs) for Activated Carbon based on a 90-day repeated dose inhalation toxicity study in rats:  
DNELworker of 1.8mg/m<sup>3</sup> (respirable) and DNEL consumer of 0.9 mg/m<sup>3</sup> (respirable).

**Predicted No Effect Concentration (PNEC):** According to the guidelines of the EU Registration, Evaluation and Authorization of Chemicals (REACH), a Predicted No Effect Concentration (PNEC) soil of 10mg/kg soil was derived based on an earthworm reproduction study. No other PNECs are derived.

## 8.2. Exposure controls

<b>Engineering controls:</b>	Ensure adequate ventilation to maintain exposures below occupational limits. Provide appropriate local exhaust ventilation at machinery and at places where dust can be generated.
<b>PPE - Respiratory protection:</b>	Approved respirator may be necessary if local exhaust ventilation is not adequate.
<b>PPE - Hand protection:</b>	Wear suitable gloves.
<b>PPE – Eye/face protection:</b>	Wear eye/face protection. Wear safety glasses with side shields (or goggles).

**PPE – Skin and body protection:**

Wear suitable protective clothing. Wash clothing daily. Work clothing should not be allowed out of the workplace.

**Environmental exposure controls:**

No special environmental precautions required. Local authorities should be advised if spillages cannot be contained.

**Other:**

Handle in accordance with good industrial hygiene and safety practice. Emergency eyewash and safety shower should be located nearby.

**Section 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

*Information given is based on data obtained from this substance or from similar substances.*

<b>Physical state:</b>	Solid
<b>Colour:</b>	Black
<b>Appearance:</b>	Powder
<b>Odour:</b>	Generally odourless. May produce slight sulphur smell when wet.
<b>Odor threshold:</b>	Not applicable.

<u>Property</u>	<u>Values</u>	<u>Remarks/Method</u>
PH:		Not applicable
Melting point/freezing point:		Not applicable
Boiling point/boiling range:		Not applicable
Evaporation rate:		Not applicable
Vapor pressure:		Not applicable
Vapor density:		Not applicable
Density:		No information available
Bulk Density:	250-350kg/m <sup>3</sup>	
Specific gravity at 20°C:		No information available
Water solubility:		Insoluble
Solubility(ies):		No information available
Partition coefficient (n-octanol/water):		No information available
Decomposition temperature:		No information available
Viscosity:		No information available
Kinematic viscosity:		No information available
Dynamic viscosity:		No information available
Oxidizing properties:		Not applicable
Softening point:		No information available
VOC content (%):		Not applicable
% Volatile (by Volume):		No information available
% Volatile (by Weight):		No information available
Surface tension:		No information available
Explosive properties:		Dust may form explosible mixture in air
Flash point:		Not applicable
Flammability (solid, gas):		No information available
Flammability limit in air:		No information available
Explosion limits in air - upper (g/m <sup>3</sup> ):		No information available
Explosion limits in air - lower (g/m <sup>3</sup> ):	20g/m <sup>3</sup>	EN 14034-3
Autoignition temperature:		No information available
Minimum ignition temperature:	550°C	VDI 2263
		No information available
Minimum ignition energy:	> 1 J	No information available

Ignition energy:		No information available
Maximum absolute explosion pressure:	8.1 bar	EN 14034-2
Maximum rate of pressure rise:	435 bar/sec	EN 14034
Burn velocity:		No information available
Kst value:	126 bar.meter/second	EN 14034-2
Dust explosion classification:	ST1	

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** May react exothermically upon contact with strong oxidizers.

### 10.2. Chemical stability

**Stability:** Stable under recommended handling and storage conditions.

**Explosion data - Sensitivity to mechanical impact:** Not sensitive to mechanical impact.

**Explosion data - Sensitivity to static discharge:** Dust may form explosible mixture in air. Avoid dust formation. Do not create a dust cloud by using a brush or compressed air. Take precautionary measures against static discharges. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operation.

### 10.3. Possibility of hazardous reactions

**Hazardous polymerization:** Hazardous polymerization does not occur.

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

### 10.4. Conditions to avoid

**Conditions to avoid:** Keep away from heat and sources of ignition. Avoid dust formation. Activated carbon (especially when wet) can deplete oxygen from air in enclosed spaces and dangerously low levels of oxygen may result.

Activated carbons have high surface area which may cause self-heating during oxidation.

### 10.5. Incompatible materials

**Incompatible materials:** Strong oxidizing agents, strong acids.

### 10.6. Hazardous decomposition product

**Haz. decomp. products:** Materials allowed to smolder for long periods in enclosed spaces may produce amounts of carbon monoxide which reach the lower explosive limit (carbon monoxide LEL = 12.5% in air), used activated carbon may produce additional combustion products which are based on the substance(s) adsorbed, Carbon oxides.



## Section 11: Toxicological information

### 11.1. Information on toxicological effects

*Information given is based on data obtained from this substance or from similar substances*

<b>Acute toxicity:</b>	Not classified
	Oral LD50: LD50/oral/rat = >2000 mg/kg. (OECD 423)
	Inhalation LC50: LC50/inhalation/1h/rat = >8.5 mg/L (OECD 403)
	Dermal LD50: Absorption highly unlikely, no health effects know
<b>Skin corrosion/irritation:</b>	Not classified. Skin irritation test, rabbit (OECD 404): Not irritating.
<b>Serious eye damage/eye irritation:</b>	Not classified. Eye irritation test, rabbit (OECD 405): Not irritating.
<b>Sensitization:</b>	Not classified. Not sensitizing based on Local Lymph Node Assay (OECD 429).
<b>Mutagenicity:</b>	Not classified. - Gene mutation in bacteria (Bacterial Reverse Mutation Assay/Ames) (OECD 471): not mutagenic. - In vitro Mammalian Chromosome Aberration Test (OECD 473): not clastogenic. - In vitro Mammalian Cell Gene Mutation Test (OECD 476): non-mutagenic.
<b>Carcinogenicity:</b>	Not classified.  Contains a component (crystalline silica) that is listed by IARC as group 1, by ACGIH as group A2, and by NTP as a known human carcinogen.
<b>Reproductive toxicity:</b>	Not classified. Repeated dose inhalation toxicity test showed no reproductive target organ effects and a toxicokinetic study showed no product migration to reproductive organs.
<b>STOT - single exposure:</b>	Not classified.
<b>STOT - repeated exposure:</b>	Not classified. Repeated dose toxicity study, inhalation (rat) 90 days (OECD 413): NOAEC 7.29 mg/m <sup>3</sup> (respirable). This test was conducted on activated carbon containing negligible crystalline silica; therefore, activated carbon itself is not classified for STOT-RE. Although respirable crystalline silica is classified as STOT-RE1, this product contains <1% respirable crystalline silica, therefore it is not classified for STOT-RE.
<b>Aspiration hazard:</b>	Based on industrial experience and available data, no aspiration hazard is expected.

## Section 12: Ecological information

*Information given is based on data obtained from this substance or from similar substances*

### 12.1. Toxicity

<b>Aquatic toxicity:</b>	Nontoxic. The substance is highly insoluble in water and the substance is unlikely to cross biological membranes. No adverse ecological effects.
<b>Terrestrial toxicity:</b>	Earthworm reproduction study (OECD 222), NOAEC for body weight reduction 1000 mg/kg soil; NOAEC for reproduction 3200 mg/kg soil. Nontoxic in soil.

### 12.2. Persistence and degradability

<b>Persistence and degradability:</b>	Not expected to degrade.
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**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** Not expected due to physicochemical properties of the substance.

**12.4. Mobility in soil**

**Mobility:** Not expected to migrate. Insoluble.

**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This substance does not fulfil the criteria for PBT or vPvB.

**12.6. Other adverse effects**

**Other adverse effects:** No information available.

**Section 13: Disposal considerations**

Disclaimer: Information in this section pertains to the product as shipped in its intended composition as described in Section 3. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate, local regulations may differ from each region/country.

List of Wastes Code: Waste hierarchy to be followed (Directive 2008/98/EC on waste, article 4)

**13.1. Waste treatment methods**

**Waste from residues/unused products:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Section 14: Transport information**

This activated carbon product is made by a steam activation process.

Not classified as dangerous in the meaning of transport regulations.

**DOT**

**UN/ID no:** Not regulated  
**Proper shipping name:** Not regulated  
**Hazard class:** Not regulated  
**Packing group:** Not regulated

**IMDG**

**UN/ID no:** Not regulated  
**Proper shipping name:** Not regulated  
**Hazard class:** Not regulated  
**Packing group:** Not regulated

**RID**

**UN/ID no:** Not regulated  
**Proper shipping name:** Not regulated  
**Hazard class:** Not regulated  
**Packing group:** Not regulated

**ADR**

**UN/ID no:** Not regulated  
**Proper shipping name:** Not regulated  
**Hazard class:** Not regulated  
**Packing group:** Not regulated

**ICAO (air)**

**UN/ID no:** Not regulated  
**Proper shipping name:** Not regulated  
**Hazard class:** Not regulated  
**Packing group:** Not regulated

**IATA**

**UN/ID no:** Not regulated  
**Proper shipping name:** Not regulated  
**Hazard class:** Not regulated  
**Packing group:** Not regulated

**Section 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**European Union:** **Germany water hazard class (WGK):** NWG (not water endangering)  
**WGK ID Nr.:** 801  
**Swiss poison class:** Not determined

**International inventories:**

<b>TSCA</b> - United States Toxic Substances Control Act Section 8(b) Inventory	Complies
<b>DSL/NDL</b> - Canadian Domestic Substances List/Non-Domestic Substances List	Complies
<b>EINECS/ELINCS</b> - European Inventory of Existing Chemical Substances/ European List of Notified Chemical Substances	Complies
<b>ENCS</b> - Japan Existing and New Chemical Substances	Complies
<b>IECSC</b> - China Inventory of Existing Chemical Substances	Complies
<b>KECL</b> - Korean Existing and Evaluated Chemical Substances	Complies
<b>PICCS</b> - Philippines Inventory of Chemicals and Chemical Substances	Complies
<b>AICS</b> - Australian Inventory of Chemical Substances	Complies
<b>NZIoC</b> - New Zealand Inventory of Chemicals	Complies
<b>TCSI</b> - Taiwan Chemical Substance Inventory	Complies

**15.2. Chemical safety assessment**

**EU Chemical safety assessment:** A Chemical Safety Assessment has been carried out for this substance.

**Section 16: Other information**
**16.1. Other information**

**Other information:** \* Indicates text in the SDS which has changed since the last revision.

**Legal disclaimer:** This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product.

Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

Compliance with all appropriate local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing.

Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary.

All health and safety information contained in this document should be provided to your employees or customers