

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date Not Applicable

Revision Number N/A

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

### 1.1. Product identifier

Product Code(s) MM0269.05-0100

Product Name Phenylacetonitrile (Benzyl Cyanide)

Form Not applicable

REACH registration number -

*NOTE [8] - No registration number is given for this substance because it is under the threshold in REACH Article 6(1) and not subject to the registration requirements according to REACH Title II*

EC No (EU Index No) 205-410-5

CAS No. 140-29-4

Pure substance/mixture Substance

Formula  $C_8H_7N$

Molecular weight 117.15

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

Recommended use Laboratory use

Uses advised against No information available

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

#### Supplier

Will be updated as per company.

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**MM0269.05-0100 - Phenylacetonitrile (Benzyl Cyanide)**

## 1.4. Emergency telephone number

Emergency Telephone Will be updated as per company.

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Austria	No information available
Bulgaria	
Croatia	
Cyprus	
Czech Republic	
Denmark	
France	
Hungary	
Ireland	
Italy	
Lithuania	
Luxembourg	
Netherlands	
Norway	
Portugal	
Romania	
Slovakia	
Slovenia	
Spain	
Sweden	
Switzerland	

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to  
Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral	Category 3 - (H301)
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# Will be updated as per company.

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**MM0269.05-0100 - Phenylacetone nitrile (Benzyl Cyanide)**

Acute toxicity - Dermal	Category 3 - (H311)
Acute toxicity - Inhalation (Vapours)	Category 1 - (H330)

## 2.2. Label elements

205-410-5  
Contains Benzyl nitrile



**Signal word**  
Danger

### Hazard statements

H301 - Toxic if swallowed.  
H311 - Toxic in contact with skin.  
H330 - Fatal if inhaled.

### Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust, fume, gas, mist, vapors and spray  
P280 - Wear protective gloves and protective clothing  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P310 - Immediately call a POISON CENTER or doctor  
P320 - Specific treatment is urgent (see supplemental first aid instructions on this label)  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

## 2.3. Other hazards

No information available.

### PBT & vPvB

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.  
This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Chemical name	Weight-%	REACH	EC No (EU)	Classification	Specific	M-Factor	M-Factor	Notes
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# Will be updated as per company.

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## MM0269.05-0100 - Phenylacetonitrile (Benzyl Cyanide)

		registration number	Index No)	according to Regulation (EC) No. 1272/2008 [CLP]	concentration limit (SCL)		(long-term)	
BenzylNitrile 140-29-4	100	-	205-410-5	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 1 (H330)	-	-	-	-

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

### Acute Toxicity Estimate

*If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE<sub>mix</sub>) for classifying a mixture based on its components*

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
BenzylNitrile 140-29-4	270	270	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### Inhalation

Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen.

#### Eye contact

Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.

#### Skin contact

Get immediate medical attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

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Revision Number N/A

**MM0269.05-0100 - Phenylacetonitrile (Benzyl Cyanide)**

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe vapour or mist. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information.

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

**Symptoms** Coughing and/ or wheezing. Difficulty in breathing.

**Effects of Exposure** No information available.

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

**Note to doctors** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

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

**Specific hazards arising from the chemical** No information available.

### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

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

# Will be updated as per company.

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Revision Number N/A

## MM0269.05-0100 - Phenylacetonitrile (Benzyl Cyanide)

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Do not breathe vapour or mist. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

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

### 6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

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

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

### 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash it before reuse. Do not breathe vapour or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe vapour or mist. Contaminated work clothing should not be allowed out of the workplace.

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

**Storage Conditions#** Please refer to the manufacturer's certificate for specific storage and transport temperature

# Will be updated as per company.

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## MM0269.05-0100 - Phenylacetoneitrile (Benzyl Cyanide)

conditions. Store only in the original receptacle unless other advice is given on the CoA.  
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

Storage class (TRGS 510) LGK 6.1A.

### 7.3. Specific end use(s)

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Exposure Limits					
Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
BenzylNitrile 140-29-4	-		-	-	TWA: 5 mg/m³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
BenzylNitrile 140-29-4	-	TWA: 3 mg/m³ Sk* Ceiling: 10 mg/m³	-	-	TWA: 1 mg/m³ STEL: 5 mg/m³ Sk*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
BenzylNitrile 140-29-4	TWA: 5 mg/m³	-	TWA: 2 mg/m³ Peak: 2 mg/m³ Sk*	TWA: 1 mg/m³ STEL: 5 mg/m³ Sk*	TWA: 1 mg/m³ STEL: 5 mg/m³ Sk*
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
BenzylNitrile 140-29-4	TWA: 5 mg/m³ STEL: 15 mg/m³	-	-	TWA: 0.8 mg/m³	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
BenzylNitrile 140-29-4	-	-	TWA: 0.9 ppm TWA: 1 mg/m³ STEL: 4.5 ppm STEL: 5 mg/m³ Sk*	TWA: 5 mg/m³ STEL: 10 mg/m³ Sk*	-
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
BenzylNitrile 140-29-4	-	TWA: 0.5 mg/m³ STEL: 1 mg/m³ Sk*	TWA: 1 mg/m³ Sk* Ceiling: 5 mg/m³	-	-
Chemical name		Sweden	Switzerland		United Kingdom
BenzylNitrile 140-29-4		NGV: 1 mg/m³ Sk*	Sk*		TWA: 5 mg/m³ STEL: 15 mg/m³

# Will be updated as per company.

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**MM0269.05-0100 - Phenylacetonitrile (Benzyl Cyanide)**

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## Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Benzyl nitrile 140-29-4	-	-	-	6.5 mg/24 hours - urine (Thiocyanates) - urine collected over 24 hours <3 mg - urine and blood (Thiocyanate ratio in urine (mg/g Creatinine) and Carboxyhemoglobin in blood (%)) - urine and blood collected at the end of the work shift	-

**Derived No Effect Level (DNEL) - Workers** No information available

**Derived No Effect Level (DNEL) - General Public** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

## 8.2. Exposure controls

### Personal protective equipment

#### Eye/face protection

Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

#### Hand protection

Wear protective butyl rubber gloves. Wear protective Viton™ gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear suitable gloves. Impervious gloves.

#### Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

#### Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

# Will be updated as per company.

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Revision Number N/A

## MM0269.05-0100 - Phenylacetonitrile (Benzyl Cyanide)

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe vapour or mist. Contaminated work clothing should not be allowed out of the workplace.

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

## SECTION 9: Physical and chemical properties

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

Appearance	Oily
Physical state	Liquid
Colour	yellow
Odour	Aromatic
Odour threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point	-23.8 °C	None known
Initial boiling point and boiling range	233.5 °C	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	113 °C	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
SADT (°C)	No data available	None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility		None known
Solubility(ies)	No data available	None known
Partition coefficient	1.6	None known
Vapour pressure	0.13 hPa	@ 20°C
Relative density	1.02	@ 20 °C
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	4.05	None known
Particle characteristics		
Particle Size	No information available	

# Will be updated as per company.

**Particle Size Distribution** No information available

**9.2. Other information**

**Molecular formula** C<sub>8</sub>H<sub>7</sub>N  
**Molecular weight** 117.15

**9.2.1. Information with regards to physical hazard classes**

No information available

**9.2.2. Other safety characteristics**

No information available

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

**Reactivity** No information available.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**

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

**10.4. Conditions to avoid**

**Conditions to avoid** Excessive heat.

**10.5. Incompatible materials**

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

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

## SECTION 11: Toxicological information

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

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

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on components).
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Toxic in contact with skin. (based on components).
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).

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

**Symptoms** Coughing and/ or wheezing. Difficulty in breathing.

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

**Acute toxicity** Fatal if inhaled. Toxic if swallowed. Toxic in contact with skin.

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

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
BenzylNitrile	= 270 mg/kg ( Rat )	= 270 mg/kg ( Rabbit )	= 430 mg/m <sup>3</sup> ( Rat ) 2 h

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

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

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

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

**Reproductive toxicity** Based on available data, the classification criteria are not met.

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

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

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

#### 11.2. Information on other hazards

##### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

##### 11.2.2. Other information

**Other adverse effects** No information available.

## **SECTION 12: Ecological information**

##### 12.1. Toxicity

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

##### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

##### 12.3. Bioaccumulative potential

**Bioaccumulation**

Chemical name	Partition coefficient
Benzyl nitrile	1.56

##### 12.4. Mobility in soil

**Mobility in soil** No information available.

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

**PBT and vPvB assessment** Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
Benzyl nitrile	The substance is not PBT / vPvB

##### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** Based on available data, the classification criteria are not met.

#### 12.7. Other adverse effects

##### Other adverse effects

No information available.

##### PMT or vPvM properties

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

#### Contaminated packaging

Do not reuse empty containers.

## SECTION 14: Transport information

### IATA

14.1 UN number or ID number	UN2470
14.2 UN proper shipping name	Phenylacetonitrile, liquid
14.3 Transport hazard class(es)	6.1
14.4 Packing group	III
Description	UN2470, Phenylacetonitrile, liquid, 6.1, III
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None
ERG Code	6L

### IMDG

14.1 UN number or ID number	UN2470
14.2 UN proper shipping name	Phenylacetonitrile, liquid
14.3 Transport hazard class(es)	6.1
14.4 Packing group	III
Description	UN2470, Phenylacetonitrile, liquid, 6.1, III
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None
EmS-No.	F-A, S-A
14.7 Maritime transport in bulk according to IMO instruments	No information available

### RID

14.1 UN number or ID number	UN2470
14.2 UN proper shipping name	Phenylacetonitrile, liquid
14.3 Transport hazard class(es)	6.1

<b>14.4 Packing group</b>	III
<b>Description</b>	UN2470, Phenylacetonitrile, liquid, 6.1, III
<b>14.5 Environmental hazards</b>	No
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None
<b>Classification code</b>	T1

#### **ADR**

<b>14.1 UN number or ID number</b>	UN2470
<b>14.2 UN proper shipping name</b>	Phenylacetonitrile, liquid
<b>14.3 Transport hazard class(es)</b>	6.1
<b>14.4 Packing group</b>	III
<b>Description</b>	UN2470, Phenylacetonitrile, liquid, 6.1, III, (E)
<b>14.5 Environmental hazards</b>	No
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None
<b>Classification code</b>	T1
<b>Tunnel restriction code</b>	(E)

#### **ADN**

<b>14.1 UN number or ID number</b>	UN2470
<b>14.2 UN proper shipping name</b>	Phenylacetonitrile, liquid
<b>14.3 Transport hazard class(es)</b>	6.1
<b>14.4 Packing group</b>	III
<b>Description</b>	UN2470, Phenylacetonitrile, liquid, 6.1, III
<b>14.5 Environmental hazard</b>	No
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	802
<b>Classification code</b>	T1
<b>Ventilation</b>	VE02
<b>Equipment Requirements</b>	PP, EP, TOX, A

### **SECTION 15: Regulatory information**

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

##### **National regulations**

##### **Germany**

<b>Water hazard class (WGK)</b>	slightly hazardous to water (WGK 1)
<b>Chemical Prohibition Ordinance (ChemVerbotsV)</b>	This product is subject to requirements and restrictions regarding handling and delivery

TRGS 905

Not applicable

**Switzerland**

**Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018** Not applicable

**Storage of Hazardous Material**

SC 6.1

**WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20**

Class B

**Major Accidents Ordinance SR 814.012**

Not applicable

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

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

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Benzyl nitrile - 140-29-4	75	

**DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors**

Not applicable

**Persistent Organic Pollutants**

Not applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**

H1 - ACUTE TOXIC

**Ozone-depleting substances (ODS) regulation (EC) 2024/590**

Not applicable

**International Inventories**

**TSCA**

U.S. INVENTORY (TSCA): Listed on inventory. For purposes of 40 CFR 720.36, this product is for Research and Development (R&D) Use Only

**DSL/NDL**

Contact supplier for inventory compliance status

**EINECS/ELINCS**

Contact supplier for inventory compliance status

**ENCS**

Contact supplier for inventory compliance status

<b>IECSC</b>	Contact supplier for inventory compliance status
<b>KECL</b>	Contact supplier for inventory compliance status
<b>PICCS</b>	Contact supplier for inventory compliance status
<b>AIIC</b>	Contact supplier for inventory compliance status

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing Chemicals Inventory  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**15.2. Chemical safety assessment**

**Chemical Safety Report**

A Chemical Safety Assessment is not required for this substance

## **SECTION 16: Other information**

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

**Full text of any hazard and/or precautionary statements referred to under Sections 2-15**

H301 - Toxic if swallowed  
H311 - Toxic in contact with skin  
H330 - Fatal if inhaled  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor  
P321 - Specific treatment (see supplemental first aid instructions on this label)  
P330 - Rinse mouth  
P405 - Store locked up  
P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable  
P280 - Wear protective gloves, protective clothing, eye protection and face protection  
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap  
P312 - Call a POISON CENTER or doctor if you feel unwell  
P361 + P364 - Take off immediately all contaminated clothing and wash it before reuse  
P260 - Do not breathe dust, fume, gas, mist, vapors and spray  
P271 - Use only outdoors or in a well-ventilated area  
P284 - In case of inadequate ventilation wear respiratory protection  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P310 - Immediately call a POISON CENTER or doctor  
P320 - Specific treatment is urgent (see supplemental first aid instructions on this label)  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed



**Legend**

ACGIH	American Conference of Governmental Industrial Hygienists
AIDII	Italian Association of Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CLP	Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DFG	German Research Foundation
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
ECHA	European Chemicals Agency
EC Number	European Community number
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	Environmental Protection Agency
EWC	European Waste Codes
GHS	Globally Harmonized System
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
ICAO	International Civil Aviation Organisation
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organisation for Standardisation
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MAL	Measuring Technical Hygienic Air Needs
MARPOL	International Convention for the Prevention of Pollution from Ships
MDLPS	Ministry of Labour and Social Policy
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration

NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
REACH	Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
SVHC	Substance of very high concern
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TRGS	Technical Rule for Hazardous Substances
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
Sen+	Sensitiser
Sk*	Skin designation
**	Hazard Designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method

Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

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

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

Revision date N/A

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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The Final Document will be available at the time of consignment.

# Can vary as per company.

**End of Safety Data Sheet**