

Supersedes date 26-Apr-2024

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Revision Number 1

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

### 1.1. Product identifier

Product Code 25013-16-5  
Product Name Butylated hydroxyanisole

### Other means of identification

*NOTE [1] - This substance is exempted from registration because it belongs to a category that is exempted from the requirements of REACH per Article 2(1), (2) and (3)*

EC No (EU Index No) 246-563-8  
CAS Number 25013-16-5  
Chemical Name Butylated hydroxyanisole  
Synonyms 2(3)-tert-Butyl-4-methoxyphenol, 3(2)-tert-Butyl-4-hydroxyanisole, BHA  
Pure substance/mixture Substance  
Contains Butylated Hydroxyanisole  
Formula C<sub>11</sub>H<sub>16</sub>O<sub>2</sub>  
Molecular Weight 180.24 g/mol

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

Recommended Use Pharma Excipients  
Uses advised against Do not use where contact with food or drinking water is possible

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

#### Manufacturer

Finar Limited 184-186/P, Chacharwadi Vasna, Sarkhej-Bavla Highway, Ta.: Sanand, Dist.: Ahmedabad-382110, Gujarat, India.  
Web: www.finarchemicals.com E-Mail Address: safety.amd@actylis.com; qa.amd@actylis.com

### 1.4. Emergency telephone number

Emergency telephone Finar: 02717 616 717

Emergency telephone - §45 - (EC)1272/2008
Europe   112

## 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 4 - (H302)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Carcinogenicity	Category 2 - (H351)
Reproductive toxicity	Category 2 - (H361)
Chronic aquatic toxicity	Category 2 - (H411)

## 2.2. Label elements

Contains Butylated Hydroxyanisole



### Signal word

Warning

### Hazard statements

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H351 - Suspected of causing cancer.

H361 - Suspected of damaging fertility or the unborn child.

H411 - Toxic to aquatic life with long lasting effects.

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

P201 - Obtain special instructions before use.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P321 - Specific treatment (see .? on this label).

P391 - Collect spillage.

### Additional information

This product requires tactile warnings if supplied to the general public.

## 2.3. Other hazards

No information available.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

Chemical name	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation	EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances
Butylated Hydroxyanisole	-	-

Chemical name	Endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4)
Butylated Hydroxyanisole	-

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Butylated Hydroxyanisole 25013-16-5	100%	No data available	246-563-8	No data available	-	-	-

**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 (ATEmix) 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 - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Butylated Hydroxyanisole 25013-16-5	2000	2000	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

<b>General advice</b>	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

<b>Symptoms</b>	May cause redness and tearing of the eyes. Burning sensation.
<b>Effects of Exposure</b>	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.

### 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: Firefighting measures

### 5.1. Extinguishing media

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

**Unsuitable extinguishing media** 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

**Personal precautions** Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation. Use personal protective equipment as required.

**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.

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

**Methods for containment** Pick up and transfer to properly labeled containers.

**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. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

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

**Storage Conditions** Store locked up. Keep container tightly closed in a dry and well-ventilated place.

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

**Risk Management Measures** The information required is contained in this Safety Data Sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Butylated Hydroxyanisole 25013-16-5	-	-	-	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Butylated Hydroxyanisole 25013-16-5	-	-	-	-	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Butylated Hydroxyanisole 25013-16-5	-	TWA: 20 mg/m <sup>3</sup>	TWA: 20 mg/m <sup>3</sup> Peak: 20 mg/m <sup>3</sup>	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Butylated Hydroxyanisole 25013-16-5	-	-	-	-	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Butylated Hydroxyanisole 25013-16-5	-	-	-	-	-
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Butylated Hydroxyanisole 25013-16-5	-	-	-	TWA: 20 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	-
Chemical name	Sweden		Switzerland	United Kingdom	
Butylated Hydroxyanisole 25013-16-5	-		TWA: 10 mg/m <sup>3</sup> STEL: 25 mg/m <sup>3</sup>	-	

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Butylated Hydroxyanisole 25013-16-5	-	-	-	-	-
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
Butylated Hydroxyanisole 25013-16-5	-	-	-	-	-
Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII	
Butylated Hydroxyanisole 25013-16-5	-	-	-	-	
Chemical name	Latvia	Luxembourg	Romania	Slovakia	
Butylated Hydroxyanisole 25013-16-5	-	-	-	-	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
Butylated Hydroxyanisole 25013-16-5	-	-	-	-	

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

Chemical name	Oral	Dermal	Inhalation
Butylated Hydroxyanisole 25013-16-5	-	-	-

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

Chemical name	Oral	Dermal	Inhalation
Butylated Hydroxyanisole 25013-16-5	-	-	-

Chemical name	Oral	Dermal	Inhalation
Butylated Hydroxyanisole - 25013-16-5	-	-	-

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

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Butylated Hydroxyanisole 25013-16-5	-	-	-	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Butylated Hydroxyanisole 25013-16-5	-	-	-	-	-

**8.2. Exposure controls**

<b>Engineering controls</b>	Apply technical measures to comply with the occupational exposure limits.
<b>Personal Protective Equipment</b>	
<b>Eye/face protection</b>	If splashes are likely to occur, wear safety glasses with side-shields.
<b>Hand protection</b>	Wear suitable gloves. Impervious gloves.
<b>Skin and body protection</b>	Wear suitable protective clothing. Long sleeved clothing.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid

contact with skin, eyes or clothing.

**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

<b>Physical state</b>	Solid
<b>Appearance</b>	Light yellow
<b>Color</b>	No information available
<b>Odor</b>	No information available.
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / Freezing point</b>	48 - 55 °C	None known
<b>Boiling point / boiling range</b>	270 °C	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Flash Point</b>	No data available	None known
<b>Autoignition temperature °C</b>	No data available	None known
<b>Decomposition temperature</b>		None known
<b>pH</b>	No data available	None known
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic Viscosity</b>	No data available	None known
<b>Dynamic Viscosity</b>	No data available	None known
<b>Water solubility</b>	Slightly soluble	None known
<b>Solubility in other solvents</b>	No information available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Vapor Pressure</b>	No data available	None known
<b>Relative density</b>	0.69 g/cm <sup>3</sup>	None known
<b>Bulk density</b>	1.12 g/cm <sup>3</sup>	
<b>Liquid Density</b>	No data available	
<b>Vapor Density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	

### 9.2. Other information

<b>Molecular Weight</b>	180.24 g/mol
<b>Molecular Formula</b>	C <sub>11</sub> H <sub>16</sub> O <sub>2</sub>

9.2.1. Information with regard to physical hazard classes  
Not applicable

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** None known based on information supplied.**10.5. Incompatible materials****Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.**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****Product Information**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms related to the physical, chemical and toxicological characteristics****Symptoms** Redness. May cause redness and tearing of the eyes.**Acute toxicity****Numerical measures of toxicity****Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Butylated Hydroxyanisole	> 2,000 mg/kg ( Rat )	> 2,000 mg/kg ( Rat )	190.412307739 mg/L (rat)

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.



**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

Chemical name	European Union
Butylated Hydroxyanisole	-

**Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

Chemical name	European Union
Butylated Hydroxyanisole	-

**Reproductive toxicity** Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.

Chemical name	European Union
Butylated Hydroxyanisole	-

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 11.2.2. Other information

**Other Adverse Effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Butylated Hydroxyanisole	-	LC50 (96hr) 1.56 mg/l (Danio rerio)	EC50 (72hr) 1.9 mg/L (Pseudokirchneriella subcapitata)	EC50 (48hr) 2.3 mg/l (Daphnia magna)

### 12.2. Persistence and degradability

**Persistence/Degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation**

#### **Component Information**

Chemical name	Partition coefficient
Butylated Hydroxyanisole	2.82

### 12.4. Mobility in soil

**Mobility in Soil** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Butylated Hydroxyanisole	Not determined

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 12.7. Other adverse effects

No information available.

## **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

<b>14.1. UN number or ID number</b>	UN3077
<b>14.2. UN proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s. (Butylated Hydroxyanisole)
<b>14.3. Transport hazard class(es)</b>	9
<b>14.4. Packing group</b>	III
<b>Description</b>	UN3077, Environmentally hazardous substance, solid, n.o.s. (Butylated Hydroxyanisole), 9, III
<b>14.5. Environmental hazard</b>	Yes
<b>14.6. Special precautions for user</b>	
<b>Special Provisions</b>	A97, A158, A179, A197, A215
<b>ERG Code</b>	9L

### IMDG

<b>14.1. UN number or ID number</b>	UN3077
<b>14.2. UN proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s. (Butylated Hydroxyanisole)
<b>14.3. Transport hazard class(es)</b>	9

<b>14.4. Packing Group</b>	III
<b>Description</b>	UN3077, Environmentally hazardous substance, solid, n.o.s. (Butylated Hydroxyanisole), 9, III, Marine pollutant
<b>14.5. Environmental hazard</b>	Yes
<b>14.6. Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 966, 967, 969
<b>EmS No.</b>	F-A, S-F
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No information available

**RID**

<b>14.1. UN-No</b>	UN3077
<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Butylated Hydroxyanisole)
<b>14.3. Transport hazard class(es)</b>	9
<b>14.4. Packing Group</b>	III
<b>Description</b>	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Butylated Hydroxyanisole), 9, III
<b>14.5. Environmental hazard</b>	Yes
<b>14.6. Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 375, 601
<b>Classification Code</b>	M7

**ADR**

<b>14.1. UN number or ID number</b>	UN3077
<b>14.2. UN proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s. (Butylated Hydroxyanisole)
<b>14.3. Transport hazard class(es)</b>	9
<b>14.4. Packing Group</b>	III
<b>Description</b>	UN3077, Environmentally hazardous substance, solid, n.o.s. (Butylated Hydroxyanisole), 9, III, (-)
<b>14.5. Environmental hazard</b>	Yes
<b>14.6. Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 601, 375
<b>Classification Code</b>	M7
<b>Tunnel Restriction Code</b>	(-)

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

Chemical name	French RG number
Butylated Hydroxyanisole - 25013-16-5	-

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
Butylated Hydroxyanisole	-	-	-

**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.

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

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Butylated Hydroxyanisole - 25013-16-5	-	-

#### Persistent Organic Pollutants

Not applicable

Chemical name	Persistent Organic Pollutants per (EC) 2019/1021 - Annex Number
Butylated Hydroxyanisole - 25013-16-5	-

Chemical name	European Export/Import Restrictions per (EC) 649/2012 - Annex Number
Butylated Hydroxyanisole - 25013-16-5	-

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

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Butylated Hydroxyanisole - 25013-16-5	-	-

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Chemical name	Ozone depletion potential (ODP)	Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Butylated Hydroxyanisole - 25013-16-5	-	-

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Butylated Hydroxyanisole - 25013-16-5	-

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Butylated Hydroxyanisole - 25013-16-5	-

Chemical name	EU - Water Framework Directive (2000/60/EC)
Butylated Hydroxyanisole - 25013-16-5	-

Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Butylated Hydroxyanisole - 25013-16-5	-

#### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>Japan (ENCS)</b>	Complies
<b>China (IECSC)</b>	Complies
<b>Korea (KECL)</b>	Complies
<b>Philippines (PICCS)</b>	Complies
<b>AIIIC</b>	Complies
<b>NZIoC</b>	Complies

- **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 and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals

### 15.2. Chemical safety assessment

**Chemical Safety Report** No information available

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms

#### Legend

SVHC: Substances of Very High Concern for Authorization:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)  
Ceiling Maximum limit value \* Skin designation  
+ Sensitizers

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 - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic 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)  
EPA (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)  
Australia 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)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision Date** 26-Apr-2024

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

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**