

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Revision date 23-May-2024

Revision Number 2

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

1.1. Product identifier

Product Code(s) 124199
Safety data sheet number 124199
Product Name PETRONAS COMPRESSOR A M4 100

Pure substance/mixture Mixture

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

Recommended use Lubricant

1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com
Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Chronic aquatic toxicity	Category 3 - (H412)
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2.2. Label elements

Hazard statements

H412 - Harmful to aquatic life with long lasting effects
EUH208 - Contains N-1-NAPHTHYLANILINE; REACTION MASS OF 1H-BENZOTRIAZOLE-1-METHANAMINE,
N,N-BIS(2-ETHYLHEXYL)-6-METHYL- AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-5-METHYL-

AND N,N-BIS(2-ETHYLHEXYL)-4-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-4-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE. May produce an allergic reaction.

Precautionary statements

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

Unknown aquatic toxicity

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
N-1-NAPHTHYLANILINE 90-30-2	0 - 10%	201-983-0	-	Aquatic Chronic 1 (H410) STOT RE 2 (H373) Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Skin Sens. 1B (H317)	-	-	-
REACTION MASS OF 1H-BENZOTRIAZOLE-1-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-6-METHYL- AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-5-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-4-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-4-METHYL- AND	0 - 10%	939-700-4	-	Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	1	-

N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE							
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Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air. Get medical attention if symptoms occur.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Rinse mouth.

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

Dermal	May cause an allergic skin reaction.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical, CO ₂ , alcohol-resistant foam or water spray.
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

Hazardous combustion products	Carbon oxides. Phosphorus oxides. Oxides of sulphur. Nitrogen oxides (NO _x).
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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.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.
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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.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling	Ensure adequate ventilation.
General hygiene considerations	Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.
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7.3. Specific end use(s)

Specific use(s)
See section 1 for more information.

Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Biological occupational exposure limits	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.
Derived No Effect Level (DNEL) - Workers	

Chemical name	Oral	Dermal	Inhalation
N-1-NAPHTHYLANILINE 90-30-2		6.67 mg/kg/day [4] [7]	0.044 mg/m ³ [4] [7]
REACTION MASS OF 1H-BENZOTRIAZOLE-1-METHANAMI NE, N,N-BIS(2-ETHYLHEXYL)-6-METHYL- AND 2H-BENZOTRIAZOLE-2-METHANAMI NE, N,N-BIS(2-ETHYLHEXYL)-5-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-4-METHYL -1H-BENZOTRIAZOLE-1-METHYLAM INE AND 2H-BENZOTRIAZOLE-2-METHANAMI NE, N,N-BIS(2-ETHYLHEXYL)-4-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-5-METHYL -1H-BENZOTRIAZOLE-1-METHYLAM INE -		0.4 mg/kg [4] [6]	1.3 mg/m ³ [4] [6]

[4] Systemic health effects.

[6] Long term.

[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
N-1-NAPHTHYLANILINE 90-30-2	2 mg/kg/day [4] [7]	3.33 mg/kg/day [4] [7]	33 mg/m ³ [4] [7]
REACTION MASS OF 1H-BENZOTRIAZOLE-1-METHANAMI NE, N,N-BIS(2-ETHYLHEXYL)-6-METHYL- AND 2H-BENZOTRIAZOLE-2-METHANAMI NE, N,N-BIS(2-ETHYLHEXYL)-5-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-4-METHYL -1H-BENZOTRIAZOLE-1-METHYLAM INE AND 2H-BENZOTRIAZOLE-2-METHANAMI NE, N,N-BIS(2-ETHYLHEXYL)-4-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-5-METHYL -1H-BENZOTRIAZOLE-1-METHYLAM INE -	0.2 mg/kg [4] [6]	0.2 mg/kg [4] [6]	0.3 mg/m ³ [4] [6]

[4] Systemic health effects.

[6] Long term.

[7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
N-1-NAPHTHYLANILINE 90-30-2	0.0002 mg/l		0.00002 mg/l		
REACTION MASS OF 1H-BENZOTRIAZOLE-1-M ETHANAMINE, N,N-BIS(2-ETHYLHEXYL) -6-METHYL- AND 2H-BENZOTRIAZOLE-2-M ETHANAMINE, N,N-BIS(2-ETHYLHEXYL) -5-METHYL- AND N,N-BIS(2-ETHYLHEXYL) -4-METHYL-1H-BENZOTR IAZOLE-1-METHYLAMINE AND 2H-BENZOTRIAZOLE-2-M ETHANAMINE, N,N-BIS(2-ETHYLHEXYL) -4-METHYL- AND N,N-BIS(2-ETHYLHEXYL) -5-METHYL-1H-BENZOTR IAZOLE-1-METHYLAMINE -	0.000976 mg/l		0.000098 mg/l		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
N-1-NAPHTHYLANILINE 90-30-2	0.0344 mg/kg	0.00344 mg/kg		0.0068 mg/kg	100 mg/l
REACTION MASS OF 1H-BENZOTRIAZOLE-1-M ETHANAMINE, N,N-BIS(2-ETHYLHEXYL) -6-METHYL- AND 2H-BENZOTRIAZOLE-2-M ETHANAMINE, N,N-BIS(2-ETHYLHEXYL) -5-METHYL- AND N,N-BIS(2-ETHYLHEXYL) -4-METHYL-1H-BENZOTR IAZOLE-1-METHYLAMINE AND 2H-BENZOTRIAZOLE-2-M ETHANAMINE, N,N-BIS(2-ETHYLHEXYL) -4-METHYL- AND N,N-BIS(2-ETHYLHEXYL) -5-METHYL-1H-BENZOTR IAZOLE-1-METHYLAMINE -	0.0121-4.23 mg/kg	0.00121-0.423 mg/kg		0.00184-0.842 mg/kg	0.69 mg/l

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Nitrile rubber. Neoprene gloves. Gloves must conform to standard EN 374.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

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

Physical state	Liquid
Appearance	Viscous liquid
Colour	Amber
Odour	No information available.
Odour threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point		No information available.
Initial boiling point and boiling range	300.00 °C	ASTM D2887.
Flammability		No information available.
Flammability Limit in Air		No information available.
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point	240.00 °C	ASTM D92.
Autoignition temperature		No information available.
Decomposition temperature		No information available.
pH		No information available.
pH (as aqueous solution)		No information available.
Kinematic viscosity	100.00 cSt	40.0 °C.
Dynamic viscosity		No information available.
Water solubility	Immiscible in water	
Solubility(ies)		No information available.
Partition coefficient		No information available.
Vapour pressure		No information available.
Relative density	0.90	ASTM D4052.
Bulk density		No information available
Liquid Density	No information available	No information available
Relative vapour density		No information available.
Particle characteristics		No information available.
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	No information available	

Oxidising properties No information available

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended storage conditions.

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 bases. Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx). Phosphorus oxides. Oxides of sulphur.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation May cause irritation.

Eye contact May cause temporary eye irritation.

Skin contact May cause an allergic skin reaction.

Ingestion Gastrointestinal discomfort.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
N-1-NAPHTHYLANILINE	= 1625 mg/kg (Rat)	> 8000 mg/kg (Rabbit)	-
REACTION MASS OF 1H-BENZOTRIAZOLE-1-METH ANAMINE, N,N-BIS(2-ETHYLHEXYL)-6-M ETHYL- AND 2H-BENZOTRIAZOLE-2-METH ANAMINE, N,N-BIS(2-ETHYLHEXYL)-5-M ETHYL- AND N,N-BIS(2-ETHYLHEXYL)-4-M ETHYL-1H-BENZOTRIAZOLE- 1-METHYLAMINE AND 2H-BENZOTRIAZOLE-2-METH ANAMINE, N,N-BIS(2-ETHYLHEXYL)-4-M ETHYL- AND N,N-BIS(2-ETHYLHEXYL)-5-M ETHYL-1H-BENZOTRIAZOLE- 1-METHYLAMINE	= 3313 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

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

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
Other adverse effects	No information available.

SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity

REACTION MASS OF 1H-BENZOTRIAZOLE-1-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-6-METHYL- AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-5-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-4-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-4-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE (-)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Desmodesmus subspicatus	EC10	0.658 mg/L	72 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Desmodesmus subspicatus	EC50	0.976 mg/L	48 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	2.05 mg/L	48 hours	
OECD Test No. 203: Fish, Acute Toxicity Test	Brachydanio rerio	LC50	1.3 mg/L	96 hours	

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
N-1-NAPHTHYLANILINE	-	LC50: =0.44mg/L (96h, Oncorhynchus mykiss)	-	-

12.2. Persistence and degradability**Persistence and degradability**

No information available.

REACTION MASS OF 1H-BENZOTRIAZOLE-1-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-6-METHYL- AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-5-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-4-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-4-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE (-)

Method	Exposure time	Value	Results
			Inherently Biodegradable

12.3. Bioaccumulative potential**Bioaccumulation**

There is no data for this product.

Chemical name	Partition coefficient
N-1-NAPHTHYLANILINE	4.28

12.4. Mobility in soil**Mobility in soil**

Insoluble.

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.

Chemical name	PBT and vPvB assessment
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N-1-NAPHTHYLANILINE	The substance is not PBT / vPvB
REACTION MASS OF 1H-BENZOTRIAZOLE-1-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-6-METHYL- AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-5-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-4-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE AND 2H-BENZOTRIAZOLE-2-METHANAMINE, N,N-BIS(2-ETHYLHEXYL)-4-METHYL- AND N,N-BIS(2-ETHYLHEXYL)-5-METHYL-1H-BENZOTRIAZOLE-1-METHYLAMINE	The substance is not PBT / vPvB

12.6. 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**

14.1 UN number or ID number	Not regulated
14.2	
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated

14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

SECTION 15: Regulatory information

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

National regulations

Authorisations and/or restrictions on use:

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	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 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 used in the safety data sheet****Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

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Skin designation

+ Sensitisers

Revision Note ***Indicates updated data since last publication

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

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)

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

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Revision date 23-May-2024

**This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
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**

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