



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Hazardous Substances (Safety Data Sheets) Notice 2017 EPA Consolidation 30
September 2022

BOSTIK TUF AS NAILS GENERAL PURPOSE
Revision Number 1

Revision date 11-Dec-2024
Supersedes date 16-Mar-2022

Section 1: Identification

Product identifier

Product Name BOSTIK TUF AS NAILS GENERAL PURPOSE

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use Adhesives

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier

Bostik New Zealand Limited
19 Eastern Hutt Road Wingate,
Lower Hutt, New Zealand
Tel: 04-567 5119
Fax: 04-567 5412

Manufacturer

Bostik New Zealand Limited
19 Eastern Hutt Road Wingate,
Lower Hutt, New Zealand
Tel: 04-567 5119
Fax: 04-567 5412

E-mail address SDS.AP@Bostik.com

Emergency telephone number

Emergency Telephone 24 Hr: 0800 243 622
International +64 4 917 9888
Poison Centre : 0800 764 766

Section 2: Hazard identification

GHS Classification

Flammable liquids	Category 2
Skin corrosion/irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Hazardous to the aquatic environment - acute	Category 1
Hazardous to the aquatic environment - chronic	Category 1

Label elements



Signal word
Danger

Hazard statements
H225 - Highly flammable liquid and vapor

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H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust, fume, gas, mist, vapors and spray
Use only outdoors or in a well-ventilated area
Avoid release to the environment
Ground and bond container and receiving equipment
Use non-sparking tools
Take action to prevent static discharges
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Wear protective gloves, protective clothing, eye protection and face protection
Keep cool
Use explosion-proof electrical/ ventilating/ lighting/ equipment

Skin

If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
Wash contaminated clothing before reuse

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell

Fire

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Spill

Collect spillage

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

Other hazards which do not result in classification

In use, may form flammable/explosive vapor-air mixture.

Section 3: Composition/information on ingredients

Chemical name	CAS No.	Weight-%
Kaolin	1332-58-7	20- <40
Heptane	142-82-5	10 - <20
Limestone	1317-65-3	10 - <20
Cyclohexane	110-82-7	5 - <10
Methylcyclopentane	96-37-7	1 - <3
Ethanol	64-17-5	1 - <3
Octane	111-65-9	1 - <3
Silica, amorphous	7631-86-9	1 - <3

Non-hazardous ingredients	Proprietary	Balance
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Section 4: First-aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

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Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Effects of Exposure	No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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Section 5: Fire-fighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO ₂). Water spray. Alcohol resistant foam.
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.

Specific hazards arising from the chemical

Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Hazardous combustion products	Carbon oxides. Carbon dioxide (CO ₂). Silicon dioxide.

Special protective actions for fire-fighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
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Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used
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when handling the product must be grounded. Do not touch or walk through spilled material.

Other information

Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Precautions to prevent secondary hazards

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

Section 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. 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. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Protect from moisture.

Recommended storage temperature

Keep at temperatures between 41 and 77 °F / 5 and 25 °C.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

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Section 8: Exposure controls/personal protection

Working area parameters, subject to mandatory control (MAC or TSEL)

Exposure Limits

This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

Chemical name	New Zealand	ACGIH TLV	United Kingdom	Australia
Kaolin 1332-58-7	TWA: 10 mg/m ³ TWA: 2 mg/m ³	TWA: 2 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	TWA: 2 mg/m ³ ; respirable dust STEL: 6 mg/m ³ ; respirable dust	TWA: 10 mg/m ³ ; inhalable dust
Heptane 142-82-5	TWA: 400 ppm TWA: 1640 mg/m ³ STEL: 500 ppm STEL: 2050 mg/m ³	TWA: 400 ppm STEL: 500 ppm	TWA: 500 ppm; TWA: 2085 mg/m ³ ; STEL: 1500 ppm; STEL: 6255 mg/m ³ ;	TWA: 400 ppm; TWA: 1640 mg/m ³ ; STEL: 500 ppm; STEL: 2050 mg/m ³ ;
Limestone 1317-65-3	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³ ; inhalable dust TWA: 4 mg/m ³ ; respirable dust STEL: 30 mg/m ³ ; inhalable dust STEL: 12 mg/m ³ ; respirable dust	-
Cyclohexane 110-82-7	TWA: 100 ppm TWA: 350 mg/m ³ STEL: 300 ppm STEL: 1050 mg/m ³	TWA: 100 ppm	TWA: 100 ppm; TWA: 350 mg/m ³ ; STEL: 300 ppm; STEL: 1050 mg/m ³ ;	TWA: 100 ppm; TWA: 350 mg/m ³ ; STEL: 300 ppm; STEL: 1050 mg/m ³ ;
Ethanol 64-17-5	TWA: 200 ppm TWA: 380 mg/m ³ STEL: 800 ppm STEL: 1520 mg/m ³	STEL: 1000 ppm	TWA: 1000 ppm; TWA: 1920 mg/m ³ ; STEL: 3000 ppm; STEL: 5760 mg/m ³ ;	TWA: 1000 ppm; TWA: 1880 mg/m ³ ;
Octane 111-65-9	TWA: 300 ppm TWA: 1400 mg/m ³ STEL: 375 ppm STEL: 1750 mg/m ³	TWA: 300 ppm	-	TWA: 300 ppm; TWA: 1400 mg/m ³ ; STEL: 375 ppm; STEL: 1750 mg/m ³ ;
Silica, amorphous 7631-86-9	-	-	TWA: 6 mg/m ³ ; inhalable dust TWA: 2.4 mg/m ³ ; respirable dust STEL: 18 mg/m ³ ; inhalable dust STEL: 7.2 mg/m ³ ; respirable dust	TWA: 2 mg/m ³ ; respirable dust

Biological occupational exposure limits

Chemical name	New Zealand	ACGIH
Cyclohexane 110-82-7	-	50 mg/g creatinine - urine (1,2-Cyclohexanediol) - end of shift at end of workweek

Appropriate engineering controls

Engineering controls

Showers
Eyewash stations
Ventilation systems.

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Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety goggles.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
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.
Environmental exposure controls	No information available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Paste
Color	Beige
Odor	Solvent.
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	Not applicable Insoluble in water
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	60 °C	
Flash point	-15 °C	
Evaporation rate	No data available	None known
Flammability	No data available	Flammable liquid
Flammability Limit in Air		None known
Upper flammability or explosive limits	7.5	
Lower flammability or explosive limits	No data available	
Vapor pressure	<110 kPa	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	21.5 mm ² /s	@ 40°C
Dynamic viscosity	No data available	
Explosive properties	No information available.	
Oxidizing properties	No information available.	

Other information

Softening point	No information available
Molecular weight	No information available
VOC content	No information available
Liquid Density	1.1 g/cm ³
Bulk density	No information available
Particle characteristics	

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Section 10: Stability and reactivity

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid Heat, flames and sparks. Protect from moisture.

Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

Section 11: Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

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

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms Redness. May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

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ATEmix (oral) >5000 mg/kg
ATEmix (dermal) >5000 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-vapor) >20 mg/l
ATEmix (inhalation-dust/mist) 169.20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Kaolin	LD50 (Rattus) > 2000 mg/kg	> 5000 mg/kg (Rattus)	1.5 mg/l 4hr
Heptane	LD50 > 5000 mg/Kg (rattus)	= 3000 mg/kg (Oryctolagus cuniculus)	=103 g/m ³ (Rattus) 4 h
Limestone	>5000 mg/kg (Rattus)	-	-
Cyclohexane	=12705 mg/kg (Rattus)	> 2000 mg/kg (Oryctolagus cuniculus)	>9500 ppm (Rattus) 4 h
Ethanol	6200 - 15000 mg/kg (Rattus) OECD 401	-	=124.7 mg/L (Rattus) 4 h
Octane	>5000 mg/Kg (Rattus)	-	=118 g/m ³ (Rattus) 4 h = 25260 ppm (Rattus) 4 h > 23.36 mg/L (Rattus) 4 h
Silica, amorphous	=7900 mg/kg (Rattus)	> 5000 mg/kg (Oryctolagus cuniculus)	>2.2 mg/L (Rattus) 1 h

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

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

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

Heptane (142-82-5)

Method	Species	Results
OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test	Rat, in vitro	Not mutagenic
OECD Test No. 471: Bacterial Reverse Mutation Test		Not mutagenic in AMES Test

Carcinogenicity This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	New Zealand	IARC
Ethanol - 64-17-5	-	Group 1
Silica, amorphous - 7631-86-9	-	Group 3

Legend

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

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

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STOT - single exposure May cause drowsiness or dizziness.

Narcotic effects Narcotic effects.

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.

Section 12: Ecological information

Ecotoxicity

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Aquatic ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
Kaolin	IC 50 (72h) > 1000 mg/l	LC 50 (96h) > 1000 mg/l	EC 50 (48h) > 1000 mg/l (Daphnia magna)
Heptane	-	LC50: =375.0mg/L (96h, Cichlid)	EC50: >10mg/L (24h, Daphnia magna)
Limestone	CE50 (72h) >200mg/L Algae (Desmodesmus subspicatus)	CL50 (96h)>10000mg/L (Oncorhynchus mykiss)	CE50 (48h) >1000 mg/L Daphnia Magna
Cyclohexane	EC50 72 h > 9.3 mg/L (Pseudokirchnerella subcapitata)	LC50: 23.03 - 42.07mg/L (96h, Pimephales promelas) LC50: 48.87 - 68.76mg/L (96h, Poecilia reticulata) LC50: 3.96 - 5.18mg/L (96h, Pimephales promelas) LC50: 24.99 - 44.69mg/L (96h, Lepomis macrochirus)	EC50: >0.9 mg/L (24h, Daphnia magna)
Ethanol	EC50 72hr 12.9 g/l (Selenastrum capricornutum) NOEC 3.24 g/l (Skeletonema costatum)	LC50: >100mg/L (96h, Pimephales promelas)	LC50: (48h, Daphnia magna) EC50: =12.34 mg/L
Octane	-	-	EC50: =0.38mg/L (48h, Daphnia magna)
Silica, amorphous	EC50: =440mg/L (72h, Pseudokirchnerella subcapitata)	LC50: =5000mg/L (96h, Brachydanio rerio)	EC50: =7600mg/L (48h, Ceriodaphnia dubia)

Terrestrial ecotoxicity

Chemical name	Earthworm	Avian	Honeybees
Ethanol	Acute Toxicity: LC50 0.1 - 1 mg/cm2 (Eisenia foetida, 48 h filter paper)	-	-

Persistence and degradability No information available.

Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Heptane	4.66
Limestone	0.9
Cyclohexane	3.44

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Ethanol	-0.35
Octane	5.18

Mobility in soil

Mobility No information available.

Other adverse effects

No information available.

Disposal methods

Waste from residues/unused products

Dispose of product in packaging in a way that is consistent with the EPA Consolidation 30 April 2021 of the Hazardous Substances (Disposal) Notice 2017 and the Act. Treat the substance using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance; or export the substance from New Zealand as waste. Flammable substances - may not be disposed of into or onto a landfill or sewage facility.

They may only be burnt in certain situations.

Flammable gases, liquids and solids may only be discharged into the environment or landfill as waste if the substance will not at any time come into contact with any explosives, oxidising gases, liquids or solids or organic peroxides; and there will be no ignition source in the vicinity of the disposal site at any time and if the substance were to ignite, no person, or place where a person may legally be, would be exposed to an unsafe level of heat radiation. Substances which are hazardous to human health or corrosive to metals – may be discharged into the environment if a tolerable exposure limit has been set for the substance (or a component of that substance); and the discharge does not, after reasonable mixing, result in the concentration of the substance in an environmental medium exceeding the tolerable exposure limit. If there is no tolerable exposure limit for the substance, then it may only be discharged into the environment if the substance is very rapidly converted to substances that are not hazardous substances. Environmentally hazardous substances – if the substance, or if it contains a component that is hazardous to the aquatic environment or bioaccumulative and not rapidly degradable, then any component that is bioaccumulative and not rapidly degradable must be removed. The product may only be discharged into the environment if an environmental exposure limit has been set for the substance (or a component of the substance); and the discharge does not, after reasonable mixing, result in the concentration of the substance in an environmental medium exceeding the environmental exposure limit.

Contaminated packaging

For packages that have been in direct contact with hazardous substances, the person must ensure that the package is rendered incapable of containing any substance. It must be disposed of in a manner that is consistent with the requirements for disposal of the substance that it contained, taking into account the material the package is manufactured from. Packages may only be reused or recycled if:

- the substance has a physical hazard other than corrosive to metal, and has been treated to remove any residual contents of the hazardous substance;
- or for substances that have a health or environmental hazard, or corrosive to metal, the contents of the residue in the package are below the threshold for the substance to be classified as hazardous in the Hazardous Substances (Hazard Classification) Notice 2020.

Section 14: Transport information

IATA

UN number or ID number	UN1133
UN proper shipping name	Adhesives
Transport hazard class(es)	3
Packing group	III
Special Provisions	A3

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Description UN1133, Adhesives, 3, III

IMDG

UN number or ID number UN1133
UN proper shipping name Adhesives
Transport hazard class(es) 3
Packing group III
EmS-No. F-E, S-D
Special Provisions 223, 955
Marine pollutant P
Description UN1133, Adhesives, 3, III, (-15°C c.c.), Marine pollutant

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available

ADR

UN number or ID number UN1133
UN proper shipping name Adhesives
Transport hazard class(es) 3
Labels 3
Packing group III
Description UN1133, Adhesives, 3, III, (E), Environmentally Hazardous
Environmental hazards Yes
Limited quantity (LQ) 5 L
Classification code F1
Tunnel restriction code (E)

Section 15: Regulatory information

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

EPA New Zealand HSNO approval code or group standard HSR002662 - Surface Coatings and Colourants (Flammable)

National regulations There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances

Certified handlers, tracking and controlled substance license requirements Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information
Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information
Controlled substance licenses are required to possess certain explosives, vertebrate toxic agents and fumigants. See Part 7 of the Health and Safety at Work Regulation 2017 for more information

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

Europe

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Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorization:

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 16: Other information

Prepared By Product Stewardship and Regulatory Affairs
Revision date 11-Dec-2024

Revision Note

***Indicates updated data since last publication.

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

Legend

SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
STOT: Specific Target Organ Toxicity
ATE: Acute Toxicity Estimate
LC50: 50% Lethal Concentration
LD50: 50% Lethal Dose

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation
**	Hazard Designation	+	Sensitizers
C	Carcinogen		

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)
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)
U.S. 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

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