



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

KONNECT ROOF & GUTTER GREY
Revision Number 1.01

Revision date 17-Feb-2025
Supersedes date 04-Aug-2021

Section 1: Identification

Product identifier

Product Name KONNECT ROOF & GUTTER GREY

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use Sealant

Uses advised against Consumer use

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

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

Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

Label elements



Signal word
Danger

Hazard statements

H350 - May cause cancer
H373 - May cause damage to organs through prolonged or repeated exposure

SAFETY DATA SHEET

KONNECT ROOF & GUTTER GREY
Revision Number 1.01

Revision date 17-Feb-2025
Supersedes date 04-Aug-2021

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/clothing and eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards which do not result in classification

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Small amounts of 2-butanone, oxime (CAS 96-29-7) are formed by hydrolysis and released upon curing. May be harmful if swallowed. Causes mild skin irritation.

Section 3: Composition/information on ingredients

Chemical name	CAS No.	Weight-%
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime	22984-54-9	5 - <10
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	1 - <3
2-Butanone, oxime	96-29-7	1 - <3
Toluene	108-88-3	0.1- <1

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. If medical advice is needed, have product container or label at hand.
Inhalation	Remove to fresh air. If symptoms persist, call a physician.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult an ophthalmologist.
Skin contact	Wash skin with soap and water.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Drink 1 or 2 glasses of water. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms	None known.
Effects of Exposure	May cause cancer. May cause damage to organs through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed

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

SAFETY DATA SHEET

KONNECT ROOF & GUTTER GREY
Revision Number 1.01

Revision date 17-Feb-2025
Supersedes date 04-Aug-2021

Suitable Extinguishing Media

Suitable Extinguishing Media Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.

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

Unsuitable extinguishing media Full water jet.

Specific hazards arising from the chemical

Specific hazards arising from the chemical Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous combustion products Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Silicon oxides.

Special protective actions for fire-fighters

Special protective equipment and precautions for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. Ensure adequate ventilation.

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

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Do not scatter spilled material with high pressure water streams.

Methods for cleaning up 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 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.

General hygiene considerations Take off contaminated clothing and wash it before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Keep away from food,

SAFETY DATA SHEET

KONNECT ROOF & GUTTER GREY
Revision Number 1.01

Revision date 17-Feb-2025
Supersedes date 04-Aug-2021

drink and animal feeding stuffs. Protect from moisture.

Recommended storage temperature Keep at temperatures between 50 and 95 °F / 10 and 35 °C.

Incompatible materials Strong oxidizing agents.

Section 8: Exposure controls/personal protection

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

Exposure Limits Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Chemical name	New Zealand	ACGIH TLV	United Kingdom	Australia
Toluene 108-88-3	TWA: 20 ppm TWA: 75 mg/m ³ STEL: 100 ppm STEL: 377 mg/m ³ Sk*	TWA: 20 ppm Ototoxicant - potential to cause hearing disorders	TWA: 50 ppm; TWA: 191 mg/m ³ ; STEL: 100 ppm; STEL: 384 mg/m ³ ; pSk	TWA: 50 ppm TWA: 191 mg/m ³ STEL: 150 ppm STEL: 574 mg/m ³
Chemical name	New Zealand	ACGIH TLV	United Kingdom	Australia
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 262 mg/m ³ STEL: 250 ppm STEL: 328 mg/m ³ Sk*	TWA: 200 ppm STEL: 250 ppm Sk*	TWA: 200 ppm; TWA: 266 mg/m ³ ; STEL: 250 ppm; STEL: 333 mg/m ³ ; pSk	TWA: 200 ppm TWA: 262 mg/m ³ STEL: 250 ppm STEL: 328 mg/m ³

Biological occupational exposure limits

Chemical name	New Zealand	ACGIH
Toluene 108-88-3	0.03 mg/L - urine (Toluene) - end of exposure or end of shift 0.3 mg/g creatinine - urine (O-Cresol) - end of exposure or end of shift	0.02 mg/L - blood (Toluene) - prior to last shift of workweek 0.03 mg/L - urine (Toluene) - end of shift 0.3 mg/g creatinine - urine (o-Cresol with hydrolysis) - end of shift

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

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

SAFETY DATA SHEET

KONNECT ROOF & GUTTER GREY
Revision Number 1.01

Revision date 17-Feb-2025
Supersedes date 04-Aug-2021

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Very viscous Paste
Color	Gray
Odor	Organic.
Odor threshold	No information available

Property	Values	Remarks • Method
pH	No data available	Not applicable Insoluble in water
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flash point	Not applicable No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	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	No data available	None known
Dynamic viscosity	150000 - 250000 mPa s	@ 23 °C
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 10 g/L
Liquid Density	No information available
Bulk density	No information available
Particle characteristics	

Section 10: Stability and reactivity

Reactivity

Reactivity	Product cures with moisture.
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Chemical stability

Stability	Stable under normal conditions.
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Explosion data

Sensitivity to mechanical impact	None.
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Sensitivity to static discharge	None.
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Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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SAFETY DATA SHEET

KONNECT ROOF & GUTTER GREY
Revision Number 1.01

Revision date 17-Feb-2025
Supersedes date 04-Aug-2021

Conditions to avoid

Conditions to avoid Protect from moisture. Exposure to air or moisture over prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products Methyl alcohol. May emit toxic fumes under fire conditions. Carbon oxides. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Section 11: Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information

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

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 mild skin irritation.

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

Symptoms Prolonged contact may cause redness and irritation.

Acute toxicity

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral) 5,000.00 mg/kg
ATEmix (dermal) 23,157.90 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-vapor) >20 mg/l
ATEmix (inhalation-dust/mist) 75.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-Butanone, O,O',O''-(methylsilylidyne)trioxime	LD50 = 2463 mg/Kg (Rattus) (OECD 401)	LD50 >2000 mg/Kg (Rattus) (OECD 402)	-
N-(3-(trimethoxysilyl)propyl)ethylenediamine	=2295 mg/kg (Rattus)	>2000 mg/Kg (Rattus)	LC50 4H (Aerosol) 1.5 - 2.44 mg/L air
2-Butanone, oxime	=100 mg/kg (ATE)	1000 - 1800 mg/kg (Oryctolagus cuniculus)	>4.83 mg/L (Rattus) 4 h
Toluene	=5580 mg/kg (Rattus)	= 12000 mg/kg (Oryctolagus cuniculus)	>20 mg/L (Rattus) 4 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 mild skin irritation.

SAFETY DATA SHEET

KONNECT ROOF & GUTTER GREY
Revision Number 1.01

Revision date 17-Feb-2025
Supersedes date 04-Aug-2021

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit				Mild skin irritant

Toluene (108-88-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
Regulation (EC) No. 440/2008, Annex, B.4	Rabbit	Dermal			Irritant

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

Component Information

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			Eye Damage

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.

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Results
OECD Test No. 471: Bacterial Reverse Mutation Test	Mammalian cells in vitro	Negative
OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes	Mammalian cells in vitro	Negative

Toluene (108-88-3)

Method	Species	Results
Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test)	Salmonella typhimurium	Not mutagenic
OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes	Mouse	Not mutagenic

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

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

Chemical name	New Zealand	IARC
Toluene - 108-88-3	-	Group 3

Legend

IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

2-Butanone, oxime (96-29-7)

Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Carcinogenic

SAFETY DATA SHEET

KONNECT ROOF & GUTTER GREY
Revision Number 1.01

Revision date 17-Feb-2025
Supersedes date 04-Aug-2021

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

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Results
OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	Rat Oral	NOAEL >500 mg/Kg

Toluene (108-88-3)

Method	Species	Results
OECD 407	in vivo	Reproductive toxicant

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

Narcotic effects No information available.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	Rat	Subacute oral toxicity gavage		28 days	NOAEL >500 mg/kg

Toluene (108-88-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
Regulation (EC) No. 440/2008, Annex, B.26	Rat, male, female	Oral		91 days	NOAEL: 625 mg/kg
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat, male, female	Inhalation, vapor			NOAEL: 1.131 mg/l

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

Section 12: Ecological information

Ecotoxicity

Ecotoxicity

Aquatic ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime	EC50 (72h) = 94 mg/L (Pseudokirchneriella subcapitata) OECD 201	EC50 (96h) >120 mg/L (Oncorhynchus mykiss) Freshwater static (OECD guideline 203)	EC50 (48h) > 120 mg/L (Daphnia magna) OECD 202
N-(3-(trimethoxysilyl)propyl)ethylenediamine	-	LC50 (96h) =597 mg/L (Danio rerio) Semi-static	EC50 (48h) =81mg/L Daphnia magna Static
2-Butanone, oxime	EC50: =83mg/L (72h, Desmodesmus subspicatus)	LC50: =760mg/L (96h, Poecilia reticulata) LC50: 777 - 914mg/L (96h, Pimephales promelas) LC50: 320 - 1000mg/L (96h, Leuciscus)	EC50: =750mg/L (48h, Daphnia magna)

SAFETY DATA SHEET

KONNECT ROOF & GUTTER GREY
Revision Number 1.01

Revision date 17-Feb-2025
Supersedes date 04-Aug-2021

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Toluene	EC50 72 h = 12.5 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 5.89 - 7.81 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h = 5.8 mg/L (Oncorhynchus mykiss semi-static)	EC50: =11.5mg/L (48h, Daphnia magna) EC50: 5.46 - 9.83mg/L (48h, Daphnia magna)

Terrestrial ecotoxicity There is no data for this product.

Persistence and degradability Not readily biodegradable. Product cures with moisture.

Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime	1.69
N-(3-(trimethoxysilyl)propyl)ethylenediamine	-0.3
2-Butanone, oxime	0.65
Toluene	2.73

Mobility in soil

Mobility Insoluble in water.

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

Contaminated packaging Handle contaminated packages in the same way as the product itself.

Section 14: Transport information

IATA Not regulated

IMDG Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

ADR Not regulated

SAFETY DATA SHEET

KONNECT ROOF & GUTTER GREY
Revision Number 1.01

Revision date 17-Feb-2025
Supersedes date 04-Aug-2021

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 HSR002679 - Surface Coatings and Colourants (Carcinogenic)

National regulations Any applicable tolerable exposure limits and environmental exposure limits according to the EPA Controls for Hazardous Substances are listed below

Chemical name	Tolerable Exposure Limit (TEL) Air	Tolerable Exposure Limit (TEL) Water	Tolerable Exposure Limit (TEL) Surface	Environmental Exposure Limits (EEL)
Toluene 108-88-3	400 µg/m ³	0.8 mg/L	-	330 µg/L (Water)

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

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 Safety & Regulatory Affairs
Revision date 17-Feb-2025

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

SAFETY DATA SHEET

KONNECT ROOF & GUTTER GREY
Revision Number 1.01

Revision date 17-Feb-2025
Supersedes date 04-Aug-2021

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