

This safety data sheet was created pursuant to the requirements of: GHS: The Globally Harmonized System of Classification and Labeling of Chemicals

#### **KONNECT ROOF & GUTTER CLEAR** Revision Number 1.02

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Revision date 16-Apr-2024 Supersedes Date: 04-Aug-2021

Section 1: Identification				
Product identifier				
Product Name	KONNECT ROOF & GUTTER CLEAR			
Other means of identification				
Recommended use of the chemica	al and restrictions on use			
Recommended use	Sealant			
Uses advised against	No information available			
Details of the supplier of the safet	y 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 <sup>.</sup> Hazard identificat	tion			

#### GHS Classification

Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

#### Label elements



Signal word Warning

Hazard statements

H351 - Suspected of causing cancer H361 - Suspected of damaging fertility or the unborn child

H371 - May cause damage to organs

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

### **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 Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product **Precautionary Statements - Response** IF exposed or concerned: Call a POISON CENTER or doctor **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. Causes mild skin irritation.

### Section 3: Composition/information on ingredients

2 Dutenana, 0 0! 0!! (mathulailulidur a)triavina		
2-Butanone, O,O',O''-(methylsilylidyne)trioxime	22984-54-9	<10
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	<10
2-Butanone, oxime	96-29-7	<10
Toluene	108-88-3	<10

Non-hazardous ingredients	Proprietary	Balance

### 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 off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.	
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 adverse reproductive effects - such as birth defect, miscarriages, or infertility. May cause damage to organs. 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.

## Section 5: Fire-fighting measures

#### 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 (NOx). 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. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.
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, drink and animal feeding stuffs. Protect from moisture.
Recommended storage temperature	Keep at temperatures between 50 and 95 $^{\circ}\text{F}$ / 10 and 35 $^{\circ}\text{C}.$
Incompatible materials	Strong oxidizing agents.

### Section 8: Exposure controls/personal protection

#### Control parameters

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	TWA: 20 ppm	TWA: 20 ppm	TWA: 50 ppm	TWA: 50 ppm
108-88-3	TWA: 75 mg/m <sup>3</sup>	Ototoxicant - potential to	TWA: 191 mg/m <sup>3</sup>	TWA: 191 mg/m <sup>3</sup>
	STEL: 100 ppm	cause hearing disorders	STEL: 100 ppm	STEL: 150 ppm
	STEL: 377 mg/m <sup>3</sup>	-	STEL: 384 mg/m <sup>3</sup>	STEL: 574 mg/m <sup>3</sup>
	Sk*		Sk*	

## Biological occupational exposure limits

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

#### Appropriate engineering controls

Engineering controls	Snowers 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

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#### Information on basic physical and chemical properties

Physical state	Paste / Gel Liquid
Appearance	Viscous
Color	Clear

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applicable Insoluble in water

Odor Odor threshold	Organic. No information available	
Property_	Values_	Remarks • Method
рН	No data available	Not applicable Insolub
Melting point / freezing point	No data available	
Initial boiling point and boiling	No data available	
range		
Flash point	No data available	
Evaporation rate	No data available	
Flammability	No data available	
Flammability Limit in Air		
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	
Relative vapor density	No data available	
Relative density	1.01	
Water solubility	Insoluble in water	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature		
Kinematic viscosity	No data available	
Dynamic viscosity	150000 250000 mPa s	
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 < 20 g/L	
Density	No information available	
Bulk density	No information available	
Particle characteristics		
raiticie characteristics		

Section 10: Stability and reactivity

**Reactivity** Reactivity Product cures with moisture. **Chemical stability** Stable under normal conditions. Stability Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None. Possibility of hazardous reactions Possibility of hazardous reactions None under normal processing. 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

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Incompatible materials	Strong oxidizing agents.
Hazardous decomposition prod	ucts
Hazardous decomposition products	Carbon oxides. 2-Butanone, oxime. Methyl alcohol. 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 e	xposure
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 values are calculated based on chapter 3.1 of the GHS document ATEmix (inhalation-gas) >20000 ppm

ATEmix (inhalation-vapor) >20 mg/l

#### **Component Information**

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

### 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.

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

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

Toluene (108-88-3)

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

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

Component Information

N-(3-(trimethoxysilyI)propyI)ethylenediamine (1760-24-3)

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

#### **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	Mammalian cells in vitro	Negative
Mutation Test		
OECD Test No. 476: In vitro Mammalian Cell	Mammalian cells in vitro	Negative
Gene Mutation Test		-

#### Toluene (108-88-3)

Method	Species	Results
Regulation (EC) No. 440/2008, Annex, B.13/14	Salmonella typhimurium	Not mutagenic
(Ames test)		
OECD Test No. 476: In vitro Mammalian Cell	Mouse	Not mutagenic
Gene Mutation Test		-

#### Carcinogenicity

Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing 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	Rat	Carcinogenic
Toxicity/Carcinogenicity Studies		

#### **Reproductive toxicity**

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

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

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

#### Toluene (108-88-3)

Method	Species	Results
OECD 407	in vivo	Reproductive toxicant

STOT - single exposure	Based on the classification criteria of the Globally Harmonized System as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). May cause damage to organs.
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:	Rat	Subacute oral		28 days	NOAEL >500 mg/kg
Combined Repeated Dose		toxicity gavage			
Toxicity Study with the					
Reproduction/Developme					
ntal Toxicity Screening					
Test					

#### Toluene (108-88-3)

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

Aspiration hazard

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

### Section 12: Ecological information

#### **Ecotoxicity**

Ecotoxicity

Aquatic ecotoxicity

Unknown aquatic toxicity

 $0.01\ \%$  of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
2-Butanone, O,O',O''-(methylsilylidyne)trioxi me	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)eth ylenediamine	-	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 idus)	EC50: =750mg/L (48h, Daphnia magna)
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)

There is no data for this product.

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#### Persistence and degradability

Not readily biodegradable. Product cures with moisture.

Bioaccumulative potential Bioaccumulation Component Information

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

Mobility in soil Mobility

No information available.

#### Other adverse effects

No information available.

### Section 13: Disposal considerations

#### **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 inform	nation	
IATA	Not regulated	
IMDG	Not regulated	
Transport in bulk according to Ann No information available	nex II of MARPOL 73/78 and the IBC Code	
ADR	Not regulated	
Section 15: Regulatory infor	mation	

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

**EPA New Zealand HSNO approval** HSR002679 - Surface Coatings and Colourants (Carcinogenic) code or group standard

National regulations

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

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Chemical name	Tolerable Exposure	Tolerable Exposure	Tolerable Exposure	Environmental
	Limit (TEL) Air	Limit (TEL) Water	Limit (TEL) Surface	Exposure Limits (EEL)
Toluene 108-88-3	400 µg/m³	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:

U.S. Environmental Protection Agency ChemView Database

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

Section 16: Othe	r information		
	Product Safety & F 16-Apr-2024 ata since last publication. <b>reviations and acronyms used i</b>	0	sheet
PBT: Persistent, Bioa	stimate	stances	
TWA TW Ceiling Ma ** Ha: C Ca Key literature referen	EXPOSURE CONTROLS/PERSON (A (time-weighted average) ximum limit value zard Designation rcinogen Acces and sources for data used to batances and Disease Registry (ATS	STEL Sk* + so compile the SE	STEL (Short Term Exposure Limit) Skin designation Sensitizers

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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**