

Section 1 Identification of Chemical Product and Company

Code	Description	Size	Colour
20319	Gorilla Mirror Fix	290ml	White

Recommended use:		Adhesive
HSNO Group Standard		HSR002670
UN number, shipping name and packaging group:		Not regulated
Suppliers contact details:	Soudal Ltd	Freephone: 0800 70 10 80
	14 Avalon Drive	Phone: (07) 847 5540
	Nawton	
	Hamilton 3200	Email: info@soudal.co.nz
	New Zealand	Website: www.soudal.co.nz
POISON CENTRE NUMBER: 0800 764 766 (24 hours)		

Section 2 Hazards Identification

Statement of Hazardous Nature

This product is classified as: **HAZARDOUS SUBSTANCE** according to the criteria of HSNO.

NOT REGULATED under NZS5433:2007 Transport of Dangerous Goods on Land

Hazardous Substances and New Organisms (HSNO) classification:

Classification	Hazard statements
Skin Sensitisation Category 1	H317 May cause an allergic skin reaction
Reproductive Toxicity Category 2	H360 May damage fertility or the unborn child

HSNO Signal Word:

DANGER



Precautionary Statements:

- P261 Avoid breathing mists/ vapours/ sprays
- P280 Wear protective gloves and protective clothing
- P264 Wash all exposed external body areas thoroughly after handling
- P272 Contaminated clothing should not be allowed out of the workplace
- P405 Store locked up
- P501 Dispose of contents/ containers in accordance with local regulations

Section 3 Composition/ Information on Ingredients

Ingredient	CAS No.	Individual HSNO classification	Concentration (% by Wt.)
1,2-Ethanediamine, N-(3-(trimethoxysilyl)	1790-24-3	Chronic Aquatic Hazard Category 3	1 - 10
Silane, ethenyltrimethoxy	2768-02-7	Flammable Liquid Category 2; Acute Inhalation Toxicity Category 4	1 - 10
Diocetylbinbis (acetylacetonate)	54068-28-9	Skin Sensitisation Category 1; Reproductive Toxicity Category 1; STOT-RE Category 2; Chronic Aquatic Hazard Category 3	1 - 10
Phenol, 2-(5-chloro-2H-benzotriazo-2-yl)-6-(1,1-dimethylethyl)-4-methyl-	3896-11-5	Eye Irritation Category 2; Skin Sensitisation Category 1; Chronic Aquatic Hazard Category 3	0 - 1
Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidiny) ester	52829-07-9	Eye Irritation Category 2; Chronic Aquatic Hazard Category 2	0 - 1
Ingredients not contributing to classification			balance

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

Section 4 First Aid Measures

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

Eye contact:

Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin contact:

Quickly but gently, wipe material off skin with a dry, clean cloth. Immediately remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor

Inhalation:

Remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.

Ingestion:

Urgent hospital treatment is likely to be needed. In the meantime, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.

General advice and advice for physicians:

Treat symptomatically.

Section 5 Fire-Fighting Measures

Extinguishing media:

There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

Fire/ Explosion Hazard

Non-combustible. Not considered a significant fire risk, however containers may burn. May emit poisonous fumes. May emit corrosive fumes.

Advice for fire-fighters:

Alert Fire & Emergency New Zealand and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.

Section 6 Accidental Release Measures

Minor Spills

Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety goggles. Trowel up/scrape up. Place spilled material in clean, dry, sealed container. Flush spill area with water

Major Spills

Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal. Wash area and prevent runoff into drains or waterways. If contamination of drains or waterways occurs, advise emergency services.

Section 7 Handling and Storage

Handling:

Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Storage:

Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Suitable Container:

Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.

Section 8 Exposure Controls/Personal Protection

Exposure Limits


CAS no.	Substance or ingredient	WES-TWA	WES-STEL
3896-11-5	Phenol, 2-(5-chloro-2H-benzotriazo-2-yl)-6-(1,1-dimethylethyl)-4-methyl-	3 mg/m ³ Respirable 10 mg/m ³ Inhalable	
52829-07-9	Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester	3 mg/m ³ Respirable 10 mg/m ³ Inhalable	

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.





Engineering Controls:

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Exposure controls:

Control	Protective measure
Eye	Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment 

SAFETY DATASHEET

	should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]	
Respiratory	Not generally required, but if concentration exceeds exposure limits then a Type A-P filter of sufficient capacity is recommended	
Skin	No special equipment needed when handling small quantities. OTHERWISE: For potentially moderate exposures: Wear general Butyl protective gloves. For potentially heavy exposures: Wear chemical protective gloves, eg. PVC, and safety footwear.	  

Section 9 Physical and Chemical Properties

General substance properties:

Property	Details
Appearance	Coloured Paste
Odour	No data
pH	No data
Vapour pressure	kPa
Vapour Density	No data
Viscosity	Viscous paste
Boiling Point	No data °C
Volatile materials	No data %
Water solubility	immiscible
Freezing/melting point	No data.
Specific gravity/density	1.396 g/ml
Flash point	No data °C
Auto-ignition temperature	No data °C
Upper and lower flammability limits	Lower % Upper %
Corrosiveness	No data.

Section 10 Stability and Reactivity

Stability:

Stable under normal conditions.

Conditions to avoid:

Ignition sources; elevated temperatures

Incompatible materials to avoid:

Avoid oxidising agents and some acids

Hazardous decomposition products:

Combustion products include carbon monoxide (CO), carbon dioxide (CO₂), silicone dioxide and other pyrolysis products typical of burning organic material.

Section 11 Toxicological Information

Summary of Toxicity

Test	Data and symptoms of exposure
Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. There is strong evidence to suggest that this material can cause, if inhaled once, serious, irreversible damage of organs. There is strong evidence to suggest that this material, on a single contact with skin, can cause serious, irreversible damage of organs.
Oral	Strong evidence exists that exposure to the material may cause irreversible damage (other than cancer, mutations and birth defects) following a single exposure by swallowing. The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Dermal	This material can cause inflammation of the skin on contact in some persons. There is strong evidence to suggest that this material, on a single contact with skin, can cause serious, irreversible damage of organs. The material may accentuate any pre-existing dermatitis condition. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material. Entry into the bloodstream through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	If applied to the eyes, this material causes severe eye damage.
Chronic	Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.

Ingredient	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
ATE			
1,2-Ethanediamine, N-(3-(trimethoxysilyl)	1897 mg/m ³	>2000 mg/m ³	>1.49 mg/L /4h
Silane, ethenyltrimethoxy	> 300 mg/m ³	3423 mg/m ³	2773 ppm / 4h
Diocetylbinbis (acetylacetonate)	2500 mg/m ³	> 2000 mg/m ³	1224 ppm / 4h
Phenol, 2-(5-chloro-2H-benzotriazo-2-yl)-6-(1,1-dimethylethyl)-4-methyl-	> 2000 mg/m ³	> 2000 mg/m ³	> 0.27 mg/L /4h
Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester	3700 mg/m ³	> 3100 mg/m ³	0.5 mg/L /4h

Section 12 Ecological Information

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high-water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Ingredient	Fish	Crustacea	Algae
ATE			
1,2-Ethanediamine, N-(3-(trimethoxysilyl)	LD ₅₀ 96hr 597 mg/L	EC ₅₀ 48hr 81 mg/L	EC ₅₀ 72hr 5.5 mg/L
Silane, ethenyltrimethoxy	LD ₅₀ 96hr > 92.2 mg/L	NOEC 48hr 1 mg/L	EC ₅₀ 72hr >89 mg/L
Diocetylbinbis (acetylacetonate)	LD ₅₀ 96hr 60.1 mg/L	EC ₅₀ 48hr >22 mg/L	EC ₅₀ 72hr <0.001mg/L
Phenol, 2-(5-chloro-2H-benzotriazo-2-yl)-6-(1,1-dimethylethyl)-4-methyl-	LD ₅₀ 96hr >100 mg/L	EC ₅₀ 48hr >100 mg/L	EC ₅₀ 72hr >100 mg/L

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Decanedioic aid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester	LD ₅₀ 96hr 7.9 mg/L	EC ₅₀ 24hr 20 mg/L	EC ₅₀ 72hr 0.7051mg/L
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	Persistence H ₂ O/ Soil	Persistence Air	Bioaccumulation	Mobility
1,2-Ethanediamine, N-(3-(trimethoxysilyl)	HIGH	HIGH	LOW	LOW
Silane, ethenyltrimethoxy	HIGH	HIGH	LOW	LOW
Phenol, 2-(5-chloro-2H-benzotriazo-2-yl)-6-(1,1-dimethylethyl)-4-methyl-	HIGH	HIGH	MEDIUM	LOW
Decanedioic aid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester	HIGH	HIGH	HIGH	LOW

Section 13 Disposal Considerations

Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible or consult manufacturer for recycling options. Consult Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled. The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. Only dispose to the environment if a tolerable exposure limit has been set for the substance. Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

Section 14 Transport Information

NOT REGULATED

Section 15 Regulatory Information

HSNO approval number and Group Standard:

HSR002670

Surface Coatings & Colourants Subsidiary Hazard

Group Standard conditions and other regulations:

Condition	Requirement
SDS	Safety data sheet must be available to a person handling the substance within 10 minutes.
Emergency plan	Not required
Certified handler	Not required
Tracking	Not applicable
Bunding and secondary containment	Required dependent on pack size and total volume
Signage	Not required
Location Compliance Certificate	Not required
Hazardous Area	Not required
Fire extinguisher	Not required

National Inventories

Australia	AICS	N
Canada	DSL	N
Canada	NDSL	N
China	IECSC	N
Europe	EINEC/ELINCS/NLP	N
Japan	ENCS	N
Korea	KECI	N
New Zealand	NZIOC	Y
Philippines	PICCS	N
USA	TSCA	N
Taiwan	TCSI	Y
Mexico	INSQ	N
Vietnam	NCI	Y
Russia	ARIPS	N

Section 16 Other Information

Revision History

February 2023	Updated following reformulation.
July 2018	Updated classification and consequential changes to all section.
October 2017	Origination

Abbreviations:

Abbreviation	Description
CAS number	Number assigned to chemical in the Chemical Abstracts Service registry
HAZCHEM code	Code used by fire-fighters to determine correct method of action in the case of fire
HSNO	Hazardous Substances and New Organisms (Act)
ICAO Technical Instructions	International Civil Aviation Organization Technical Instructions
IMDG code	International Maritime Dangerous Goods code controlled by the International Maritime Organization (IMO)
LC ₅₀	Lethal concentration 50% - concentration fatal to 50% of the tested population
LD ₅₀	Lethal dose 50% - dose fatal to 50% of the tested population
NZS 5433	New Zealand Standard 5433 (Standard for the Transport of Dangerous Goods on Land)
SDS	Safety data sheet
STEL	Short term exposure limit
TWA	Time weighted average (typically measured as 8 hours)
UN number	United nations number
WES	Workplace exposure standard

References

Chemical properties and HSNO classifications derived from the New Zealand chemical classification information database (CCID). www.epa.govt.nz.
Workplace exposure limits derived from Workplace Exposure Standards and Biological Exposure Indices 13th Edition (April 2022).

The information provided on this SDS 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 as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material in combination with any other material or in any process, unless specified in the text.

This SDS was prepared by Collievale Enterprises Ltd in accord with the Hazardous Substances (Safety Data Sheets) Notice 2020

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End of SDS