Section 1 Identification of Chemical Product and Company

Code	Description	Size	Colour
75140	Gorilla Contact Spray Adhesive	300 ml	Clear

Recommended use:		Adhesive
HSNO Group Standard		HSR002515
UN number, shipping name and packaging group:		UN 1950
Supplier contact details:	Soudal Ltd	Freephone: 0800 70 10 80
	134 Kohia Drive	Phone: (07) 847 5540
	Horotiu	
	Hamilton 3288	Email: info@soudal.com
	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 GHS v7.

REGULATED under NZS5433:2020 Transport of Dangerous Goods on Land

GHS classification:

Classification		GHS Hazard statements	
Flammable Aerosol	**Category 1**	H222+229	Extremely flammable aerosol. Pressurized container: may burst if heated
Eye Irritation	**Category 2**	H319	Causes serious eye irritation
STOT – SE NE	**Category 3**	H336	May cause drowsiness or dizziness
Aspiration	**Category 1**	H304	May be fatal if swallowed and enters airways
Chronic Aquatic Hazard	**Category 2**	H411	Toxic to aquatic life with long lasting effects

HSNO Signal Word: DANGER



Precautionary Statements:

P102	Keep out of the reach of children
P103	Read label before use
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P211	Do not spray on an open flame or other ignition source
P251	Do not pierce or burn even after use
P260	Do not breathe gas/ vapours
P271	Use only outdoors or in a well-ventilated place
P280	Wear protective gloved, protective clothing, eye protection and face protection
P264	Wash all exposed external body areas thoroughly after handling
P273	Avoid release to the environment
P391	Collect spillage

P405 Store locked up
P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50ºC
P403+233 Store in a well-ventilated place. Keep container tightly closed

P501 Dispose of contents/ container to authorised hazardous or special waste collection points in accordance with local regulations

Section 3. Composition/Information on Ingredients

Ingredient	CAS No.	Individual GHS classification	Concentration (% by Wt.)
Dimethyl ether	115-10-6	Flammable Gas Category 1 | Eye Irritation Category 2	50 – 75
Isopentane	78-78-4	Flammable Liquid Category 1 | Eye Irritation Category 2 | STOT – SE NE Category 3 | Aspiration Category 1	25 – 50
Acetone	67-64-1	Flammable Liquid Category 2 | Eye Irritation Category 2	5 – 10
Cyclohexane	110-82-7	Flammable Liquid Category 2 | Acute Oral Toxicity Category 4 | Acute Inhalation Toxicity Category 4 | Chronic Aquatic Hazard Category 2	5 - 10
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 the eyelids apart and flush the eye continuously for at least 15 minutes with fresh 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. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin contact:

Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. Seek medical attention in the event of irritation.

Inhalation:

Remove to fresh air. 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. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.

Ingestion:

Avoid giving milk or oils. Avoid giving alcohol. Not considered a normal route of entry. f spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

General advice and advice for physicians:

Treat symptomatically

Section 5 Fire-Fighting Measures

Extinguishing media:

SMALL FIRE: Water spray, dry chemical or CO_2

LARGE FIRE: Water spray or fog.

Fire/ Explosion Hazard:

Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition with violent container rupture. Aerosol cans may explode on exposure to naked flames. Rupturing containers may rocket and scatter burning materials. Hazards may not be restricted to pressure effects. May emit acrid, poisonous or corrosive fumes. On combustion, may emit toxic fumes of carbon monoxide (CO).

Advice for fire-fighters:

Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Consider evacuation Fight fire from a safe distance, with adequate cover. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach cylinders suspected to be hot. Cool fire-exposed cylinders with water spray from a protected location. If safe to do so, remove containers from path of fire.

Section 6 Accidental Release Measures

Minor Spills:

Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Wear protective clothing, impervious gloves and safety glasses. Shut off all possible sources of ignition and increase ventilation. Wipe up. If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely.

Major Spills:

Clear area of all unprotected personnel and move upwind. Alert Emergency Authority and advise them of the location and nature of hazard. May be violently or explosively reactive. Wear full body clothing with breathing apparatus. Prevent by any means available, spillage from entering drains and watercourses. Consider evacuation. Shut off all possible sources of ignition and increase ventilation. No smoking or naked lights within area. Use extreme caution to prevent violent reaction. Stop leak only if safe to so do. Water spray or fog may be used to disperse vapour. DO NOT enter confined space where gas may have collected. Keep area clear until gas has dispersed. Remove leaking cylinders to a safe place. Fit vent pipes. Release pressure under safe, controlled conditions DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse / absorb vapour. Absorb or cover spill with sand, earth, inert materials or vermiculite. If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely. Collect residues and seal in labelled drums for disposal.

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. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. DO NOT incinerate or puncture aerosol cans. DO NOT spray directly on humans, exposed food or food utensils. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. 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:

Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed. Contents under pressure. Store away from incompatible materials. Store in a cool, dry, well-ventilated area. Avoid storage at temperatures higher than 40^0C. Store in an upright position. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Suitable Container:

Aerosol dispenser. Check that containers are clearly labelled.

Section 8 Exposure Controls/Personal Protection

Exposure Limits

CAS no.	Substance or ingredient	WES-TWA	WES-STEL
115-10-6	Dimethyl ether	766 mg/m³ 400 ppm	`956 mg/m³ 500 ppm
110-82-7	Cyclohexane	350 mg/m³ 100 ppm	`1050 mg/m³ 300 ppm
67-64-1	Acetone	1185 mg/m³ 500 ppm	`2375 mg/m³ 1000 ppm

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 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. If exposure standards are likely to be exceeded, then a Type AX filter is recommended 
Skin	Wear chemical protective gloves, e.g. PE/EVAL/PE. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watchbands should be removed and destroyed. 

Section 9 Physical and Chemical Properties

General substance properties:

Property	Details
Appearance	Aerosol
Odour	Characteristic
pH	Not available
Vapour pressure	Not available
Vapour Density	Not available
Viscosity	Not available

Boiling Point	Not available ℃
Volatile materials	Not available
Freezing/melting point	Not available
Water Solubility	Immiscible
Specific gravity/density	Not available g/ml
Flash point	Not available
Auto-ignition temperature	Not available ℃
Upper and lower flammability limits	Not available
Corrosiveness	Not available

Section 10 Stability and Reactivity

Stability:
Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.

Conditions to avoid:
Elevated temperatures; ignition sources

Incompatible materials to avoid:
Oxidising or reducing agents

Hazardous decomposition products:
carbon monoxide (CO) carbon dioxide (CO_2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.

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. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of coordination, and vertigo. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and incoordination. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. Following inhalation, ethers cause lethargy and stupor. Inhaling lower alkyl ethers results in headache, dizziness, weakness, blurred vision, seizures and possible coma. Inhalation of high vapour concentrations may result in coughing, headache, mild depression, incoordination, blurred vision, confusion, loss of appetite, nausea, vomiting, irregular heartbeat and unconsciousness. Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure. WARNING: Intentional misuse by concentrating/inhaling contents may be lethal. Spray mist may produce discomfort
Oral	Accidental ingestion of the material may be damaging to the health of the individual. Ingestion of alkyl ethers may produce stupor, blurred vision, headache, dizziness and irritation of the nose and throat. Respiratory distress and asphyxia may result. Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result.
Dermal	Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Spray mist may produce discomfort Absorption may produce headache, dizziness, and central nervous system depression. Body

	absorption is not expected to be a significant route of entry because its boiling point is less than body temperature. 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	This material can cause eye irritation and damage in some persons. Not considered to be a risk because of the extreme volatility of the gas.
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Main route of exposure to the gas in the workplace is by inhalation.

Ingredient	Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
ATE			
Dimethyl Ether			>20,00 ppm/4hr
Isopentane	> 2000 mg/kg		>25.3 mg/L/4h
Cyclohexane	12075 mg/kg	> 2000 mg/kg	>5540 ppm/4h
Acetone	5800 mg/kg	20000 mg/kg	44 mg/L /4h

Section 12 Ecological Information

Summary of Ecotoxicity
Toxic to aquatic life with long lasting effects
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	Crustacean	Algae
ATE			
Dimethyl ether	$LC_{50\ 96hr}$ 1783 mg/L	$EC_{50\ 48hr}$ >4400 mg/L $NOEC_{48hr}$ >4000 mg/L	$EC_{50\ 96hr}$ 154.9 mg/L
Isopentane	$LC_{50\ 96hr}$ 4.26 mg/L	$EC_{50\ 48hr}$ 2.3 mg/L	$EC_{50\ 72hr}$ 1.26 mg/L
Cyclohexane	$LC_{50\ 96hr}$ 4.53 mg/L	$EC_{50\ 48hr}$ 0.9 mg/L	$EC_{50\ 72hr}$ 3.482 mg/L $EC_{50\ 96hr}$ 2.17 mg/L
Acetone	$LC_{50\ 96hr}$ >3744 mg/L $NOEC_{12hr}$ 0.001 mg/L	$EC_{50\ 48hr}$ 6098 mg/L	$EC_{50\ 72hr}$ 5600 mg/L $EC_{50\ 96hr}$ 9.87 mg/L

Ingredient	Persistence Water/ Soil	Persistence Air	Bioaccumulation	Mobility
Dimethyl ether	LOW	LOW	LOW	HIGH
Isopentane	HIGH	HIGH	LOW	LOW
Cyclohexane	HIGH	LOW	LOW	LOW
Acetone	LOW	MEDIUM	LOW	HIGH

Section 13 Disposal Considerations

Disposal methods:
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. Consult State Land Waste Management Authority for disposal. Discharge contents of damaged aerosol cans at an approved site. Allow small quantities to evaporate. DO NOT incinerate or puncture aerosol cans. Bury residues and emptied aerosol cans at an approved site..

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017
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. DO NOT deposit the hazardous substance into or onto a landfill or a sewage facility. Burning the hazardous substance must happen under controlled conditions with no person or place exposed to (1) a blast overpressure of more than 9 kPa; or (2) an unsafe level of heat radiation. The disposed hazardous substance must not come into contact with class 1 or 5 substances.

Section 14 Transport Information



HAZCHEM	not applicable

Land Transport UNDG

UN Number	**1950**
Shipping Name	**AEROSOLS**
Class or division	**2.1**
Subsidiary Risk	Not applicable
UN Packing Group	not applicable
Environmental Hazard	**Environmentally hazardous**
Special Provisions	**63 190 277 327 344 381**
Limited Quantities	**1000 ml**

Air Transport IATA

UN/ID Number	**1950**
Shipping Name	**Aerosols, flammable**
ICAO/IATA Class	**2.1**
ICAO/IATA Subrisk	None
ERG Code	**10L**
Packing Group	not applicable
Environmental Hazard	**Environmentally hazardous**
Special provision	**A145 A167 A802**
Cargo only	
Packing instructions	**203**
Maximum Qty/pack	**150 Kg**
Passenger and Cargo	
Packing instructions	**203**
Maximum Qty/pack	**75 Kg**
Passenger & Cargo Limited Quantity	
Packing instructions	**Y203**
Maximum Qty/pack	**30Kg G**

Marine Transport IMDG

UN Number	**1950**
Shipping Name	**AEROSOLS**
IMDG Class	**2.1**
IMDG Subrisk	None
Packing Group	not applicable
Environmental Hazard	**Marine Pollutant**

EmS Number	**F-D S-U**
Special provisions	**63 190 277 327 344 381 959**
Limited quantities	**1000 ml**

Section 15 Regulatory Information

HSNO approval number and Group Standard:

HSR002515 **Aerosols, flammable**

Group Standard conditions and other regulations:

Condition	Requirement
SDS	Required
Emergency plan	Required when quantities exceed 3000 Lt (water equivalent)
Certified handler	Not required
Tracking	Not applicable
Bunding and secondary containment	Not applicable
Signage	Required when quantities exceed 3000 Lt (water equivalent)
Location Compliance certificate	**Flammable Aerosol Category 1** required when quantities exceed 3000 Lt (water equivalent)
Hazardous Atmosphere Zone	As per AS/NZS 60079.10
Fire extinguisher	Required when quantities exceed 3000 Lt water equivalent

National Inventories

Y = All ingredients are on the inventory

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

Section 16 Other Information

Revision History:

March 2023	Updated following review.
August 2018	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 5433:2020	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 GHS 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 in accord with the Hazardous Substances (Safety Data Sheets) Notice 2020
admin@collievale.com Phone +64 7 5432428

End of SDS