

## Section 1 Identification of Chemical Product and Company

Code	Description	Size	Colour
19389	Gorilla 696 Surface Activator	500 ml	Clear
19392	Gorilla 696 Surface Activator	5 Lt	Clear

Recommended use:19392	Surface Cleaner	
Group Standard	HSR002662	
UN number, shipping name and packaging group:	1219 Isopropanol Solution	
Supplier contact details:	SoudalLtd	Freephone: 0800 70 10 80
	134 Kohia Drive	Phone: (07) 847 5540
	Horotiu	
	Hamilton 3288	Email: info@soudal.co.nz
	New Zealand	Website: <a href="http://www.soudal.co.nz">www.soudal.co.nz</a>
<b>POISON CENTRE NUMBER: 0800 764 766 (24 hours)</b>		

## Section 2 Hazards Identification

### Statement of Hazardous Nature

This product is classified as:

**HAZARDOUS SUBSTANCE** according to the criteria of HSNO.

**REGULATED** under NZS5433:2007 Transport of Dangerous Goods on Land

### Hazardous Substances and New Organisms (HSNO) classification:

Classification	Hazard statements
<b>Flammable Liquid Category 2</b> <b>3.1B</b>	H225      Highly flammable liquid and vapour
<b>Eye Effects Category 2</b> <b>6.4A</b>	H319      Causes serious eye irritation
<b>STOT – SE NE Category 3</b> <b>6.9</b>	H335      May cause drowsiness or dizziness

HSNO Signal Word:

**DANGER**



### Precautionary Statements:

P210      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P271      Use only outdoors or in a well-ventilated area.  
 P240      Ground and bond container and receiving equipment.  
 P241      Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.  
 P242      Use non-sparking tools.  
 P243      Take action to prevent static discharges.  
 P261      Avoid breathing mist/vapours/spray.

P280      Wear protective gloves/protective clothing/eye protection/face protection.

P370+P378 In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.

### Section 3. Composition/Information on Ingredients

Ingredient	CAS No.	Individual HSNO classification	Concentration (% by Wt.)
Isopropanol	67-63-0	Flammable Liquid Category 2; Eye Effects Category 2; STOT – SE NE Category 3	> 90
Tetraisopropyl orthotitanate	546-68-9	Flammable Liquid Category 3; Eye Effects Category 2; STOT – SE NE Category 3	1 - 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:

Wash out immediately 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. 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:

IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. 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:

Foam, Carbon Dioxide, Dry Powder

#### Fire/ Explosion Hazard

Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat, flame and/or oxidisers. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO).

#### Advice for fire-fighters:

Alert Fire & Emergency New Zealand and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. 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 containers suspected to be hot. Equipment should be thoroughly decontaminated after use.

### Section 6 Accidental Release Measures

#### Minor Spills

Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container.

**Major Spills**

Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

**Section 7 Handling and Storage**

**Handling:**

Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. 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, heat or ignition sources. When handling, DO NOT eat, drink or smoke. Vapour may ignite on pumping or pouring due to static electricity. DO NOT use plastic buckets. Earth and secure metal containers when dispensing or pouring product. Use spark-free tools when handling. Avoid contact with incompatible materials. Keep containers securely sealed. 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.

**Storage:**

Store in original containers in approved flame-proof area. No smoking, naked lights, heat or ignition sources. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. Keep containers securely sealed. Store away from incompatible materials in a cool, dry well ventilated area. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

**Section 8 Exposure Controls/Personal Protection**

**Exposure Limits**



CAS no.	Substance or ingredient	WES-TWA		WES-STEL	
67-63-0	Isopropanol	983 mg/m <sup>3</sup>	400 ppm	1230 mg/m <sup>3</sup>	500 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, but if concentration exceeds exposure limits then a Type A filter of sufficient capacity is recommended 

<b>Skin</b>	No special equipment needed when handling small quantities. OTHERWISE: For potentially moderate exposures: Wear general Butyl or Neoprene protective gloves. For potentially heavy exposures: Wear chemical protective gloves, eg. PVC. and safety footwear.	
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## Section 9 Physical and Chemical Properties

### General substance properties:

Property	Details
<b>Appearance</b>	Clear Liquid
<b>Odour</b>	Characteristic
<b>pH</b>	No data
<b>Vapour pressure</b>	4.3 kPa
<b>Vapour Density</b>	> 1 heavier than air
<b>Viscosity</b>	Not applicable
<b>Boiling Point</b>	82 °C
<b>Volatile materials</b>	No data %
<b>Water solubility</b>	miscible
<b>Freezing/melting point</b>	No data.
<b>Specific gravity/density</b>	0.80 g/ml
<b>Flash point</b>	12 °C
<b>Auto-ignition temperature</b>	No data °C
<b>Upper and lower flammability limits</b>	Lower 2 % Upper 12 %
<b>Corrosiveness</b>	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 (CO<sub>2</sub>), silicone dioxide and other pyrolysis products typical of burning organic material.

## Section 11 Toxicological Information

### Summary of Toxicity

Test	Data and symptoms of exposure
<b>Inhaled</b>	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. There is strong evidence to suggest that this material can cause, if inhaled once, serious, irreversible damage of organs. Aliphatic alcohols with more than 3-carbons cause headache, dizziness, drowsiness, muscle weakness and delirium, central depression, coma, seizures and behavioural changes. Secondary respiratory depression and failure, as well as low blood pressure and irregular heart rhythms, may follow. The odour of isopropanol may give some warning of exposure, but odour fatigue may occur. Inhalation of isopropanol may produce irritation of the nose and throat with sneezing, sore throat and runny nose. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.
<b>Oral</b>	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. Overexposure to non-ring alcohols causes nervous system symptoms. These include headache, muscle weakness and inco-ordination, giddiness, confusion, delirium and coma. 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. Swallowing 10 millilitres of isopropanol may cause serious injury; 100 millilitres may be fatal if not properly treated. The adult single lethal dose is approximately 250 millilitres. Isopropanol is twice as poisonous as ethanol, and the effects caused are similar, except that isopropanol does not cause an initial feeling of well-being. Swallowing may cause nausea, vomiting and diarrhoea; vomiting and stomach inflammation is more prominent with isopropanol than with ethanol. Animals given near-lethal doses also showed incoordination, lethargy, inactivity and loss of consciousness. There is evidence that a slight tolerance to isopropanol may be acquired. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. Accidental ingestion of the material may be damaging to the health of the individual.
<b>Dermal</b>	There is strong evidence to suggest that this material, on a single contact with skin, can cause serious, irreversible damage of organs. The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Most liquid alcohols appear to act as primary skin irritants in humans. Significant percutaneous absorption occurs in rabbits but not apparently in man. 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.
<b>Eye</b>	This material can cause eye irritation and damage in some persons. Isopropanol vapour may cause mild eye irritation at 400 parts per million. Splashes may cause severe eye irritation, possible burns to the cornea and eye damage. Eye contact may cause tearing and blurring of vision.
<b>Chronic</b>	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. Long term, or repeated exposure of isopropanol may cause incoordination and tiredness. Repeated inhalation exposure to isopropanol may produce sleepiness, incoordination and liver degeneration. Animal data show developmental effects only at exposure levels that produce toxic effects in adult animals. Isopropanol does not cause genetic damage. There are inconclusive reports of human sensitisation from skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body effects of isopropanol. Animal testing showed the chronic exposure did not produce reproductive effects. NOTE: Commercial isopropanol does not contain "isopropyl oil", which caused an excess incidence of sinus and throat cancers in isopropanol production workers in the past. "Isopropyl oil" is no longer formed during production of isopropanol.

Ingredient	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Isopropanol	>6000 mg/kg	12.792 mg/kg	27.2 mg/L/7hr
Tetraoispropyl orthotitanate	4475 mg/kg	15.2 mg/kg	7.78 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
Isopropanol	LC <sub>50 96hr</sub> >1400 mg/L NOEC <sub>5760hr</sub> <0.02 mg/L	LC <sub>50 96hr</sub> >7550mg/L	EC <sub>50 96hr</sub> 1000 mg/L EC <sub>10 168hr</sub> 12.44 mg/L
Tetraoispropyl orthotitanate	LC <sub>50 96hr</sub> 4200 mg/L	LC <sub>50 48hr</sub> 590 mg/L	EC <sub>50 72hr</sub> 400 mg/L NOEC <sub>72hr</sub> 50 mg/L

	Persistence H <sub>2</sub> O/ Soil	Persistence Air	Bioaccumulation	Mobility
Isopropanol	LOW	LOW	LOW	HIGH
Tetraisopropyl orthotitanate	LOW	LOW	LOW	HIGH

### 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



HAZCHEM 3[Y]E

#### Land Transport UNDG

Class or division **3**  
 Subsidiary Risk  
 UN Number **1219**  
 UN Packing Group **II**  
 Shipping Name **ISOPROPANOL MIXTURE**  
 Special Provisions  
 Limited Quantities **1Lt**

#### Air Transport IATA

ICAO/IATA Class **3**  
 ICAO/IATA Subrisk  
 UN/ID Number **1219**  
 Packing Group **II**  
 Special provision **A180**  
 Cargo only  
 Packing instructions **364**  
 Maximum Qty/pack **60 Lt**  
 Passenger and Cargo  
 Packing instructions **353**  
 Maximum Qty/pack **5 Lt**  
 Passenger & Cargo Limited Quantity  
 Packing instructions **Y341**  
 Maximum Qty/pack **1 Lt**  
 Shipping Name **ISOPROPANOL MIXTURE**

#### Marine Transport IMDG

IMDG Class **3**  
 IMDG Subrisk  
 UN Number **1219**  
 UN Packing Group **II**  
 EmS Number **F-E S-D**  
 Special provisions  
 Limited quantities **1Lt**  
 Marine pollutant **No**  
 Shipping Name **ISOPROPANOL MIXTURE**

## Section 15 Regulatory Information

### HSNO approval number and Group Standard:

HSR002662 Surface Coatings &amp; Colourants (Flammable)

### 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	Required when present in quantities >250 Lt
Certified handler	Not required
Tracking	Not applicable
Bunding and secondary containment	Required in accordance with pack size and total pooling volume at location
Signage	Required when quantities exceed 100 L
Location Compliance Certificate	Required when quantities exceed 100Lt in container of greater than 5Lt capacity, else greater than 250 Lt in containers of less than 5Lt capacity, else greater than 50 Lt in open containers
Hazardous Area	Required in accordance with AS/NZS 60079.10
Fire extinguisher	2 required when quantities exceed 100 Lt

### National Inventories

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	N
Vietnam	NCI	Y
Russia	ARIPS	T

## Section 16 Other Information

### Revision History

January 2021	Revised formulation and update to GHS v7
February 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 <sub>50</sub>	Lethal concentration 50% - concentration fatal to 50% of the tested population
LD <sub>50</sub>	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](http://www.epa.govt.nz).  
Workplace exposure limits derived from Workplace Exposure Standards and Biological Exposure Indices 11th Edition (November 2019).

***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 2017  
<http://www.collievale.com> Phone +64 7 5432428

End of SDS