

ISOPROPANOL CLEANING WIPE

Classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name: George Fischer Pty Ltd (ABN 37 001 686 399)
Address: Unit 1, 100 Belmore Road North, RIVERWOOD NSW 2210 AUSTRALIA
Telephone: (02) 9502 8000
Emergency Telephone: As Above (Business Hours)

IDENTIFICATION

Product Name: GEORG FISCHER ISOPROPANOL WIPE
Product Code: 799 496 011 and 799 496 010
Proper Shipping Name: Solids Containing Flammable Liquid n.o.s (Iso Propyl Alcohol)
Other Names: Iso-Propanol, Propan-2-ol
UN Number: 3175
DG Class: 4.1
Packing Group: II
Hazchem Code: 2[Y]E
Poisons Schedule: Not Scheduled
Product Use: Pipe Solvent Cleaning Tissues

PHYSICAL DATA (Isopropanol)

Appearance: Clear colourless liquid
Melting Point: -88.90 °C
Boiling Point: 82.1-82.5 °C
Vapour Pressure: 12.8 kPa @ 38 °C
30.6 kPa @ 55 °C
4.4 kPa @ 20 °C
Specific Gravity: 0.786 g/cm³ (20/20)
Flash Point: 12 °C
Flamm Limit LEL: 1.8%
Flamm Limit UEL: 12.0%
Solubility in Water: 100% @ 20 °C

Other Properties (Isopropanol)

Volatile Component: 100%
Autoignition Temp.: >350 °C
Evaporation Rate: 2.500 (n-Bu Acetate=1)
Vapour Density: >1.00 (1013 kPa/air=1)
Coefficient Water/Oil Distr.: 0.00107 °C (Liq.)
Viscosity (25 °C): 2.08 cSt
Stability: Stable
Haz. Polymerization: No
Materials to Avoid: Caustics, amines, alkanolamines, aldehydes, strong oxidising agents, and chlorinated compounds.
Molecular Weight: 60
Other Information: Is Material Hygroscopic: No
Heat of Vapourisation: 158.00 cal/g

INGREDIENTS

Information on Composition Ingredients:

CHEMICAL NAME: Oxygenated hydrocarbons

Name	CAS	Proportion
Propan-2-ol (Isopropyl Alcohol)	67-63-0	> 90 %

HEALTH HAZARD INFORMATION (Isopropanol)**Health Effects**

Acute – Swallowed: Minimal toxicity. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema.

Acute – Eye: Irritating, and will injure eye tissue if not removed promptly.

Acute – Skin: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Low order of toxicity.

Acute – Inhaled: Vapour concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness could be anesthetic and may have other central nervous system effects. Negligible hazard at ambient temperature (-18 to 38 °C).

Hazards Identification:

Chronic: In developmental toxicity studies conducted by the US Chemical Manufacturers Association, unexpected acute toxicity was found when Isopropanol was administered to pregnant rabbits by gavage. There were no unexpected toxic effects in pregnant rats exposed in the same study. In the rats there were some relatively mild development effects at maternally toxic levels. There was no evidence of developmental toxicity in the rats at levels which did not also produce maternal toxicity. There were no indications of developmental toxicity in the rabbits at any exposure level. Findings from a multigeneration oral reproduction study indicate that infant and immature rats are more sensitive than their parents to the acute oral toxicity induced by high (1000 mg/kg/day) doses of Isopropanol. The effect levels for rats and rabbits were at several times the maximum exposure that would occur at the TLV.

Other Information: HAZARDS IDENTIFICATION:
HEALTH HAZARDS: Irritating to eyes.
PHYSICAL AND CHEMICAL HAZARDS/FIRE AND EXPLOSION HAZARDS: Extreme hazard. Leaks of gas or spills of liquid can readily form flammable mixtures at temperatures at or above the flash point.

First Aid

Swallowed: If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

Eye: Immediately flush eyes with large amounts of water for at least 15 minutes. Get prompt medical attention.

Skin: Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after flushing has begun.

Inhaled: Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

PRECAUTIONS FOR USE

Exposure Limits:

Name	STEL (mgm3)	STEL (ppm)	TWA (mgm3)	TWA (ppm)
Propan-2-ol (Isopropyl Alcohol)	1230	500	983	400

Other Exposure Info: The exposure standard for isopropanol established by the Australian National Occupational Health and Safety Commission (NOHSC) is listed above.

Eng. Controls: The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures or otherwise to maintain ambient concentration below the recommended.
Use explosion-proof ventilation equipment.

Personal Protection

Protective Equip.: For open systems where contact is likely, wear long sleeves, chemical resistant gloves, and chemical goggles. Where contact may occur, wear safety glasses with side shields. Where concentrations in air may exceed the limits given in this Section and engineering, work practice or other means of exposure reduction are not adequate, approved respirators (AS/NZS 1715 and AS/NZS 1716) may be necessary to prevent overexposure by inhalation.

SAFE HANDLING INFORMATION**Storage and Transport**

Storage Precautions: STORAGE TEMPERATURE: Ambient.
STORAGE PRESSURE: Atmospheric.
Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated place away from incompatible materials. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. This material is not a static accumulator, but use proper grounding procedures. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

Transport: This material is a Class 4.1 - Flammable Solid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 4 - Flammable Solids are incompatible in a placard load with any of the following: - Class 1, Explosives - Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk - Class 2.3, Toxic Gases - Class 4.2, Spontaneously Combustible Substances - Class 5.1, Oxidising Agents and Class 5.2, Organic Peroxides - Class 6, Toxic Substances (where the flammable liquid is nitromethane) - Class 7, Radioactive Substances
TRANSPORT TEMPERATURE: Ambient.
LOADING/UNLOADING TEMPERATURE: Ambient.
TRANSPORT PRESSURE: Atmospheric.
USUAL SHIPPING CONTAINERS: Polyethylene Drum, Coated Foil Pack

Proper Shipping Name: ISOPROPANOL (ISOPROPYL ALCOHOL)

Recommended Materials: MATERIALS AND COATINGS SUITABLE: Inorganic zinc coatings, epoxy phenolic coatings, vinyl coatings, carbon steel, stainless steel, copper bronze, polyethylene, teflon, polyester.

Unsuitable Materials: MATERIALS AND COATINGS UNSUITABLE: Aluminum, cast iron, monel, butyl rubber, natural rubber, EPDM.

Spills and Disposal

Spills & Leaks: **LAND SPILL:** Eliminate sources of ignition. Warn occupants of downwind areas of fire and explosion hazard. Prevent liquid from entering sewers, watercourses, or low areas. Keep public away. Shut off source if possible to do so without hazard. Advise police if substance has entered a water course of sewer or has contaminated soil or vegetation. Take measures to minimise the effect on the ground water. Contact spilled liquid with sand or earth. Dilute contained spill with water. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. If liquid is too viscous for pumping, scrape up with shovels or pails and place in suitable containers for recycle or disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. See Section FIRST AID as well and Section OTHER PROPERTIES (STABILITY).

WATER SPILL: Eliminate sources of ignition. Warn occupants and shipping in downwind areas of fire and explosion hazard and request them to stay clear. Hose over spill area to effect dilution of water soluble material. Consult an expert on disposal of any recovered material and ensure conformity to local disposal regulations. See also Section FIRST AID and Section OTHER PROPERTIES (STABILITY).

Disposal: The following advice only applies to the product as supplied. Combination with other materials may well indicate another route of disposal. If in doubt, contact local Authorities.

Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should in any case be taken to ensure compliance with national and local regulations.

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be burned directly in appropriate equipment.

Fire/Explosion Hazard

Hazardous Combustion Products: No unusual

Hazardous Decomposition or Byproducts: None

Fire Fighting Procedures: Use water spray to cool fire exposed surfaces and to protect personnel. Shut off 'fuel' to fire. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect men attempting to stop a leak. Either allow fire to burn under controlled conditions or extinguish with alcohol type foam or dry chemical. Try to cover liquid spills with foam. Spill fires may be extinguished by flooding with large amounts of water.
SPECIAL FIRE PRECAUTIONS: See also Section FIRST AID as well as Section OTHER PROPERTIES (STABILITY).

Hazchem Code: 2[Y]E

OTHER INFORMATION

Environment Protection ENVIRONMENTAL MOBILITY:

This substance is water soluble and is expected to remain primarily in water.

ENVIRONMENTAL DEGRADABILITY:

This substance biodegrades rapidly and is 'readily' biodegradable according to OECD guidelines.

ECOTOXICITY AND BIOACCUMULATION:

Low acute toxicity to aquatic organisms is expected. Long term adverse effects to aquatic organisms are not expected.

Risk Statement: R11 Highly flammable

R36 Irritating to eyes.

Safety Statement: S7 Keep container tightly closed.



S16 Keep away from sources of ignition - No smoking.

S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Regulatory Information: CLASSIFICATION AND LABELLING ACCORDING TO NOHSC CODES:

CLASSIFICATION/SYMBOL: Highly flammable/F.

CLASSIFICATION/SYMBOL: Irritant/Xi.

GOVERNING DIRECTIVE: National Code of Practice for the Labelling of Hazardous Substances.

LABEL NAME: Propan-2-Ol (Isopropyl Alcohol).

Hazard Category: Irritant, Highly Flammable

CONTACT POINT

Contact (BH): Mr Enzo Bova
Telephone: (02) 9502 8000

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Georg Fischer Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

End of MSDS