Section 1 - Identification of The Material and Supplier

Vård Group **Phone: 03 5719 2100**
30 Murrell St
Wangaratta VIC 3677 AUSTRALIA

Chemical nature: Solvent.

Trade Name: **Isopropyl Alcohol.**

Product Use: For industrial use - Cosmetic use: Cosmetics, hair sprays and colours. Commercial use: A solvent; an industrial detergent; a dry cleaning agent; fuel and lubricant additives; welding and soldering agents. Domestic use: Printing inks and surface coatings; adhesives; cleaning/washing agents, including in domestic detergents; and colouring agents. Site-limited use: As a chemical intermediate; and in analytical laboratory work.
Non-industrial use: As a solvent in pharmaceutical products.

Creation Date: **May, 2021**

This version issued: **June 2021** and is valid for 5 years from this date.

Poisons Information Centre: Phone 13 11 26 from anywhere in Australia

Section 2 - Hazards Identification

Statement of Hazardous Nature

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

UN Number: 67-63-0

GHS Signal Word: Danger

Acute Toxicity (Oral) - Category 5
Skin Irritation - Category 2
Serious eye damage - Category 1

HAZARD STATEMENT:

H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

PREVENTION

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting and all other equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing fumes/gas/mist/vapours/spray.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/eye protection/face protection.

RESPONSE

P303 + P361 + P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P370+ P378: In case of fire: Use carbon dioxide (CO_2), dry chemical, alcohol resistant foam or water spray for extinction.

STORAGE

P403+ P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

DISPOSAL

P501: If they can not be recycled, dispose of contents to an approved waste disposal plant and containers to landfill (see Section 13 of this SDS).

Emergency Overview

Physical Description & Colour: Clear liquid.
Odour: Strong alcohol odour
Major Health Hazards: Serious damage to eyes and skin irritation.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %	TWA (mg/m^3)	STEL (mg/m^3)
2-Propanol	67-63-0	<+100	983	1,230

The SWA 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.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned, or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Description of necessary measures according to routes of exposure

Swallowed

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep victim calm and warm - Obtain immediate medical care. Never give anything by mouth to an unconscious person.

Eye

IF IN EYES: Immediately flush eyes with running water for several minutes, occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.

Skin

IF ON SKIN: Remove contaminated clothing and shoes immediately. Flush skin with running water for at least 15minutes and/or wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.

Inhaled

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply resuscitation if victim is not breathing. Do NOT use direct mouth-to-mouth method if victim ingested or inhaled the substance; use alternative respiratory method or proper respiratory device. Administer oxygen if breathing is difficult. Keep victim calm and warm - Obtain immediate medical care.

Advice to Doctor

Show this safety data sheet to the doctor in attendance. Ensure that attending medical personnel are aware of identity and nature of product(s) involved and take precautions to protect themselves.

Medical Conditions Aggravated

Use of alcoholic beverages enhances the harmful effect by Exposure

Section 5 - Fire Fighting Measures

General Measures

Public safety hazard: IMMEDIATELY CONTACT POLICE OR FIRE BRIGADE. Evacuate all unprotected personnel from area. Keep upwind and to higher ground. If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out. Avoid getting water inside containers.

Flammability Conditions

HIGHLY FLAMMABLE: Low flashpoint - Will be easily ignited by heat, sparks or flames.

Extinguishing Media

Use dry chemical, Carbon dioxide (CO2), alcohol-resistant foam or water spray for extinction - Do not use water jets. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, fine water spray can be used. Caution: Use of water spray when fighting fire may be inefficient.

Fire and Explosion Hazard

Risk of violent reaction or explosion: Vapours will form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Most vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Many liquids are lighter than water. Containers may explode when heated. Vapours from runoff may create an explosion hazard.

Hazardous Products of Combustion

Fire will produce irritating, toxic and/or corrosive gases.

Special Fire Fighting Instructions

Contain runoff from fire control or dilution water - Runoff may pollute waterways; Vapours from runoff may create an explosion hazard.

Personal Protective Equipment

Wear self-contained breathing apparatus (SCBA) in combination with normal firefighting clothing (full fire kit/bunker gear).

Flash Point

12 °C

Lower Explosion Limit

2%

Upper Explosion Limit

12%

Auto Ignition Temperature

No Data Available

Hazchem Code

2YE

Section 6 - Accidental Release Measures

General Response Procedure

Ensure adequate ventilation - Ventilate enclosed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flame). All equipment used when handling the product must be earthed. Do not touch or walk through spilled material. Avoid breathing vapours and contact with eyes, skin and clothing.

Clean Up Procedures

Absorb with earth, sand or other non-combustible material. Use clean, non-sparking tools to collect absorbed material and place it in suitable, properly labelled containers for disposal (see SECTION 13).

Containment

Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Vapour-suppressing foam may be used to control vapours.

Decontamination

No information available.

Environmental Precautionary Measures

Spillages and decontamination runoff should be prevented from entering drains and watercourses - Runoff may pollute waterways; Vapours from runoff may create an explosion hazard.

Evacuation Criteria

Spill or leak area should be isolated immediately. Keep upwind and to higher ground. Keep unauthorised personnel away. For large spills: IMMEDIATELY CONTACT POLICE OR **FIRE** BRIGADE; Consider downwind evacuation.

Personal Precautionary Measures

SCBA and gas-tight suits should be worn when dealing with damaged or leaking containers and where there is no risk of ignition. SCBA and structural firefighting uniform provide VERY limited protection where there is a risk of ignition.

Section 7 - Handling and Storage

Handling

Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation - Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours/spray and contact with eyes, skin and clothing. Use personal protective equipment as required (see SECTION 8). HIGHLY FLAMMABLE LIQUID: Keep away from heat and all sources of ignition - No smoking. Ground/bond container and receiving equipment. Use

explosion-proof electrical/lighting/ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Vent container carefully before opening.

Storage

Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep containers tightly closed when not in use. Keep away from heat and all sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10). Store locked up.

Container

Keep in the original container. "Empty" containers retain residue and/or vapour and may be dangerous. Do not cut, weld, braze solder, drill, grind or expose such containers to heat, flames, sparks, or other ignition sources.

Section 8 - Exposure Controls and Personal Protection

General

Isopropyl alcohol (CAS No. 67-63-0):

- Safe Work Australia Exposure Standard: TWA= 400 ppm (983 mg/m3); STEL = 500 ppm (1,230 mg/m3).
- New Zealand WES: TWA= 400 ppm (983 mg/m3); STEL = 500 ppm (1,230 mg/m3).
- NIOSH REL: TWA= 400 ppm (980 mg/m3); STEL = 500 ppm (1,225 mg/m3).
- OSHA PEL: TWA = 400 ppm (980 mg/m3).
- Immediately dangerous to life or health (IDLH) concentration: 2,000 ppm.

Exposure Limits

No Data Available

Biological Limits

No information available.

Engineering Measures

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Use explosion-proof electrical/lighting/ventilating equipment.

Personal Protection Equipment

Respiratory protection: Wear respiratory protection in case of inadequate ventilation or when vapour/aerosols are generated. Recommended: Filter type: A (organic vapour).

- Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Goggles; do not wear contact lenses when handling this product.
- Hand protection: Wear protective gloves. Recommended: Impervious, solvent-resistant gloves.
- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Impervious apron and work boots where splashing may occur.

Special Hazards Precautions

No information available.

Work Hygienic Practices

Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Clear liquid.
Odour:	Strong alcohol odour.
Boiling Point:	82 - 83 °C
Freezing/Melting Point:	No Data Available
VOC Volume:	100%
Vapour Pressure:	4.4 kPa (@ 20 °C)
Vapour Density:	2.1 Air= 1
Specific Gravity:	0.78 - 0.79
Water Solubility:	Miscible with water
pH:	No Data Available
Volatility:	No Data Available
Odour Threshold:	No Data Available
Evaporation Rate:	2.4 (Butyl acetate= 1)
Coeff Oil/water Distribution:	No Data Available
Autoignition temp:	No Data Available
Properties That May Initiate or	

Contribute to Fire Intensity. HIGHLY FLAMMABLE: Low flashpoint - Will be easily ignited by heat, sparks or flames.

Reactions That Release Gases or Vapours. Fire will produce irritating, toxic and/or corrosive gases.

Release of Invisible Flammable Vapours and Gases. Vapours will form explosive mixtures with air.

Section 10 - Stability and Reactivity

General Information

Reacts with strong oxidants. Attacks some plastics and rubber.

Chemical Stability

Stable.

Conditions to Avoid

Keep away from heat and all sources of ignition.

Materials to Avoid

Incompatible/reactive with strong oxidisers, acetaldehyde, chlorine, ethylene oxide, acids, isocyanates.

Hazardous Decomposition Products

Fire will produce irritating, toxic and/or corrosive gases. Under incomplete combustion conditions, oxides of Carbon and Nitrogen.

Hazardous Polymerisation

Will not occur.

Section 11 - Toxicological Information

Information on toxicological effects:

Acute toxicity	Low degree of toxicity by ingestion; May cause abdominal pain, nausea, vomiting, unconsciousness. Low to moderate degree of toxicity by inhalation.
Skin corrosion/irritation	The substance may defat the skin, which may cause dryness or cracking.
Serious eye damage/irritation	Causes serious eye irritation, redness.
Respiratory or skin sensitisation	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	Isopropyl alcohol (CAS No. 67-63-0) is classified in Group 3 of the IARC Monographs: Not classifiable as to its carcinogenicity to humans.
Reproductive toxicity	No information available.
Specific target organ toxicity (STOT)- single exposure	May cause irritation to the upper respiratory tract and may cause headache, drowsiness or dizziness (CNS depression).
Specific target organ toxicity (STOT)- repeated exposure	No information available.
Aspiration hazard	Risk of aspiration, pneumonia (chemical pneumonitis).

Acute

Ingestion

Acute toxicity (Oral):
- LD50, Rat: 5,045 mg/kg

Other

Acute toxicity (Dermal):
- LD50, Rabbit: 12,800 mg/kg

Inhalation

Acute toxicity (Inhalation):
- LC50, Rat: 16,000 ppm (8 h)

Carcinogen Category

None

Section 12 - Ecological Information

Ecotoxicity
No information available.
Persistence/Degradability
Readily biodegradable.
Mobility
No information available.
Environmental Fate
Prevent entry into soils, drains and waterways.
Bioaccumulation Potential
No information available.
Environmental Impact
No Data Available.

Section 13 - Disposal Considerations

Disposal: Containers should be emptied as completely as practical and air-dried before disposal. If possible, recycle product and containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site.

Section 14 - Transport Information

Land Transport (Australia)
ADG Code

Proper Shipping Name
ISOPROPANOL (ISOPROPYL ALCOHOL)
Class
3 Flammable Liquids
Subsidiary Risk(s)
No Data Available
EPG
16 Liquids - Highly Flammable, Toxic
UN Number
1219
Hazchem
2YE
Pack Group
II
Special Provision
No Data Available

Sea Transport
IMDG Code

Proper Shipping Name
ISOPROPANOL (ISOPROPYL ALCOHOL)
Class
3 Flammable Liquids
Subsidiary Risk(s)
No Data Available
UN Number
1219
Hazchem
2YE

Pack Group
II
Special Provision
No Data Available
EMS
F-E, S-D
Marine Pollutant
No

Air Transport
IATA DGR

Proper Shipping Name
ISOPROPANOL (ISOPROPYL ALCOHOL)
Class
3 Flammable Liquids
Subsidiary Risk(s)
No Data Available
UN Number
1219
Hazchem
2YE
Pack Group
II
Special Provision
No Data Available

National Transport Commission (Australia)
Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification
Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Section 15 - Regulatory Information

General Information
No Data Available
Poisons Schedule (Aust)
Not Scheduled

National/Regional Inventories

Australia (AICS); Listed
Canada (DSL); Listed
Canada (NDSL); Not Listed
China (IECSC); Listed
Europe (EINECS); 200-661-7
Europe (REACh); Listed
Japan (ENCS/METI); 2-207
Korea(KECI); KE-29363
Malaysia (EHS Register); Listed
New Zealand (NZIoC); Listed
Philippines (PICCS); Listed
Switzerland (Giftliste 1); Not Determined
Switzerland (Inventory of Notified Substances); Not Determined

Taiwan (NCSR); Listed
USA(TSCA); Listed

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES 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 MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

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.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document “Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice” (May 2018)

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