



Hall's
MANUFACTURING

ISOPROPYL ALCOHOL

MATERIAL SAFETY DATA SHEET



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:

Other names:

Recommended Use:

Company:

Address:

Telephone Number:

Emergency Telephone:

Isopropyl Alcohol (2-Propanol)

1-methylethanol / 1-methylethyl alcohol / 2-hydroxypropane / dimethyl carbinol / ethyl carbinol / hydroxypropane / IPA / i-propanol / isoethylcarbinol / propan-2-ol / sec-propano

Disinfectant

Solvent

HALL'S ADHESIVES & CHEMICALS

160 VICTORIA ROAD, PIETERMARITZBURG. KZN

033 3458376

033 3458376

2. COMPOSITION/INFORMATION ON INGREDIENTS
Ingredients:

2-Propanol

Ethanol

Non-hazardous ingredients

>85% (w/w)

15 %

Balance

3. HAZARDOUS IDENTIFICATION

Hazardous Classification:

GHS US classification

Flammable liquids Category 2

H225 Highly flammable liquid and vapour

Serious eye damage/eye irritation Category 2A

H319 Causes serious eye irritation

Specific target organ toxicity (single exposure) Category 3

H335 May cause respiratory irritation

Full text of H statements: see section 16

H225 - Highly flammable liquid and vapour

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

Risk Phrase(s):

Safety Phrase(s):

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical, lighting, ventilating equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P261 - Avoid breathing mist, vapors, spray.

P264 - Wash exposed skin thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

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 person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for

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several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

4. FIRST AID MEASURES

Inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

Ingestion:

Rinse mouth with water. Do not apply (chemical) neutralizing agents without medical advice. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital

Skin:

Rinse with water. Do not apply (chemical) neutralizing agents without medical advice. Soap may be used. Take victim to a doctor if irritation persists.

Eye:

If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

First Aid Facilities:

Provide eye baths and safety showers close to areas where splashing May occur.

5. FIRE FIGHTING MEASURES

Substantial Extinguishing Media:

Quick-acting ABC powder extinguisher. Quick-acting BC powder extinguisher. Quick-acting class B foam extinguisher. Quick-acting CO2 extinguisher. Class B foam (alcohol-resistant). Water spray if puddle cannot expand

Protective Equipment for Fire Fighters:

Full protection equipment against corrosive fumes and liquids, a self-contained breathing apparatus, should be worn.

Specific Hazards:

DIRECT FIRE HAZARD. Highly flammable liquid and vapour. Gas/vapor flammable with air within explosion limits. **INDIRECT FIRE HAZARD.** May be ignited by sparks. Gas/vapor spreads at floor level: ignition hazard.

DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air within explosion limits. **INDIRECT EXPLOSION HAZARD.** may be ignited by sparks. Reactions with explosion hazards: see "Reactivity Hazard" 4[W]E

Hazchem Code:

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Clean up any spills as soon as possible, using an absorbent material to collect it.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective goggles. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus.

Emergency procedures : Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosion-proof appliances and lighting equipment. Keep containers closed.

Wash contaminated clothes.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Do not breathe gas, fumes, vapor or spray. Emergency procedures : Stop leak if safe to do so. Ventilate area. If a major spill occurs, all personnel should be immediately evacuated and the area ventilated.

6.2. Environmental precautions

Prevent spreading in sewers.

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6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute/disperse combustible gas/vapour with water curtain. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills. Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite or powdered limestone. Scoop absorbed substance into closing containers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly. Work under local exhaust/ventilation. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Keep container tightly closed.

Conditions for Safe Storage:

Incompatible products : Ammonia. Strong acids. Strong oxidizers.
Incompatible materials : Direct sunlight. Heat sources. Sources of ignition.
Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. strong acids. (strong) bases. amines. halogens.
Storage area : Store in a cool area. Store in a dry area. Ventilation at floor level. Fireproof storeroom. Provide for an automatic sprinkler system. Provide for a tub to collect spills. Provide the tank with earthing. May be stored under nitrogen. Meet the legal requirements.
Special rules on packaging : SPECIAL REQUIREMENTS: closing. with pressure relief valve. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials : SUITABLE MATERIAL: stainless steel. monel steel. carbon steel. copper. nickel. bronze. glass. Teflon. polyet

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Provide sufficient ventilation to control exposure levels below the exposure standards. Use local exhaust ventilation at sources of air contamination such as open process equipment. Dangerous concentrations may exist in areas with poor ventilation such as confined spaces.

Respiratory Protection:

Respiratory protection should be used if there is a risk of exposure to high vapour concentrations. Respirators should comply with SABS standards.

Eye Protection:

Wear chemical goggles or face shield.

Hand Protection:

Wear chemical resistant gloves.

Body Protection

Wear protective clothing as necessary to avoid skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

clear transparent liquid

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Odour:	Alcoholic
Boiling Point:	82°C
Melting point:	89°C
Solubility in Water:	Miscible with water
Specific Gravity:	0.791g/mL
Molecular weight:	60.1g/mol
Vapour pressure:	44 mm Hg @ 20°C
Per cent volatiles:	N/A
Flash Point:	12°C
Flammability:	FLAMMABLE.
Evaporation rate:	N/A

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal use conditions

Conditions to Avoid: Direct sunlight. High temperature. Incompatible materials.
Incompatible Materials: Ammonia. Strong acids. Strong oxidizers

11. TOXICOLOGICAL INFORMATION

Inhalation:

Avoid breathing vapour or spray mist. Vapour concentrations are irritating to nose and throat resulting in possible headaches, dizziness, and lack of coordination, nausea and possible loss of consciousness.

Ingestion:

Harmful if ingested. Exposure to this product may result in nausea, dizziness and lack of consciousness. Vomiting may cause the product to be aspirated in the lungs possibly resulting in chemical pneumonitis.

Skin:

Avoid contact with skin. Exposure may cause the product to be absorbed into the skin promoting the potential for over-exposure.

Eye:

Avoid contact with eyes. Product may cause moderate to severe eye irritation and pronounced inflammation.

Chronic Effects:

Repeated or prolonged contact may cause irritant contact dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

A low potential to affect aquatic organisms.

A low potential to affect secondary waste treatment microbial metabolism.

A low potential to affect the growth of some plant seedlings.

13. DISPOSAL CONSIDERATIONS

Waste Disposal:

Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Incinerate under surveillance with energy recovery. Obtain t

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14. TRANSPORT INFORMATION

Transport Information:

Proper Shipping Name:

DG Class:

Hazchem Code:

Packing Group:

Handle in accordance of South African regulations for household chemicals

Household Cleaning Chemical

0

4[W]E

III

15. REGULATORY INFORMATION

Poisons Schedule:

National and or International

Regulatory Information:

Packaging & Labelling:

S6, S2, S24, S37, S46

Classified as hazardous according to criteria of Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Supplied in an appropriately safe, sealed container.

16. OTHER INFORMATION

Trail Version

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