SAFETY DATA SHEET

Product Name — Isopropyl Alcohol

1. PRODUCT AND COMPANY IDENTIFICATION

Recommended use:	Solvent, for cosmetic and personal care, paint and resin
Company Details:	Super Shine Products Ltd
Address:	64, 66 Huia Road, Otahuhu Auckland. New Zealand
Telephone Number:	+64 9 276 1591
Emergency Telephone Number:	National Poison Information Centre 0800 764 766
Date of Preparation:	**25/10/2019**

2. HAZARD IDENTIFICATION

GHS Classification and Categories

Flammable Liquids	Category 2
Acute toxicity: Oral	Category 5
Skin Irritation	Category 3
Eye Irritation	Category 2A

HSNO Hazard Classification: 3.1B, 6.1E (oral), 6.3B, 6.4A

Danger

Code:	**Hazard Statement:**
H225	Highly flammable liquid and vapour
H303	May be harmful if swallowed
H316	Causes mild skin irritation
H319	Causes serous eye irritation

Prevention Statement:

- Keep out of reach of children
- Read label before use
- Keep away from ignition sources Keep containers tightly closed
- Take precautionary measure against static discharge
- Use explosion proof electrical / ventilation / lighting equipment Use only non-sparkle tools
- Take precautionary measure against static discharge
- Wear protective gloves and eye/face protection
- Wash hand thoroughly after handling

Response Statement:

- If medical advice is needed, have product container or label at hand
- If skin irritation occurs, get medical advice
- In case of fire use powdered type stored pressure fire extinguisher
- If in eyes, rinse cautiously with water for several minutes, remove contact lenses, if present and easy to do. Continue rinsing

Storage Statement:

- Keep container tightly close

Disposal Statement:

- Dispose through licensed disposal contractor

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	Concentration %
Isopropanol	67-63-0	100

4. FIRST AID MEASURES

Ingestion:

Immediately rinse mouth with water. If swallowed do not induce vomiting. Give water to drink. Seek immediate medical attention.

Eye Contact:

Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.

Skin Contact:

Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give Oxygen. Get medical help.

5. FIRE FIGHTING MEASURES

Extinguishing Media:

Use dry chemical powder, foam, polymer foam, water spray or fog type extinguishers. Water may be ineffective on fire. However water spray may be used to extinguish fires, and to absorb heat, keep containers cool and protect exposed material. If a leak or spill has not ignited, water spray may be used to flush spills away from exposures.

Hazards from combustion products:

Flammable liquid. Vapour may form explosive mixtures with air above the flash point of 48 deg C. Avoid exposure to sources of ignition or open flame. Avoid using in a confined space or generating mists or vapours. May accumulate static charge by flow or agitation. Vapour is heavier than air and may collect in drains or other low areas. Electrically ground all drums, transfer vessel, hoses and piping.

Precautions for fire fighters and special protective equipment:

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 courses

Use fire-fighting procedures suitable for surrounding area.

Use water delivered as a fine spray to control the fire and cool adjacent area.

DO NOT approach containers suspected to be hot.

If safe to do so, remove containers from path of fire.

Fire fighters to wear self contained breathing apparatus if risk of exposure to vapour or products of combustion as well as structural fire fighters uniform.

6. ACCIDENTAL RELEASE MEASURES

Emergency Precautions:

Personnel involved in the clean should wear full protective clothing. Evacuate all unnecessary personnel. Increase ventilation. Avoid walking through spilled product as it may slippery. Stop leak if safe to do so. Do not let product reach drain or waterways; advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.

Methods and Materials for Containment and Clean Up:

Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect material into suitable, labelled, dry, sealable containers and hold for

safe disposal. Once pick-up is complete, flush spill site with plenty of water to eliminate any residue. Hold contaminated water for treatment/disposal.

7. HANDLING AND STORAGE

Handling:

Wash thoroughly after handling. Use only in a well ventilated area. Avoid contact with eyes, skin and clothing. Empty containers retain product and residue, (liquid or vapour), and can be dangerous. Keep container tightly closed. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Do not dispose of material to sewers or waterways.

Storage:

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

The time weighted average (TWA) concentration, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week for this product is: 983 mg/m_3 (400 ppm). The short-term exposure limit (STEL), which is the maximum allowable exposure concentration at any time.is: 1230 mg/m_3 (500 ppm).

Biological limit values : No values

Biological limit values: None established.

Engineering Controls:

The use of local exhaust ventilation is recommended to control process emissions near the sources. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof ventilation equipment

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:

Where concentration in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half face filter mask to protect from overexposure by inhalation. A type "A" filter material is considered suitable for this product.

Eye Protection:

Always use safety glasses or a face shield when handling this product.

Skin/Body Protection:

Always wear long sleeves and long trousers or coveralls, enclosed footwear or safety boots and chemical resistant gloves when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colourless liquid
Physical State:	Liquid
Odour:	Solvent odour
pH;	N/A
Solubility:	soluble in water
Vapour Density:	2.07
Boiling point:	82.5 deg
Freezing Point:	Not applicable
Ignition Point:	degree
Flash Point:	degree
Specific Gravity:	0.70
Vapour pressure:	>30
% Volatilities:	100%

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable at room temperature and pressure.
Conditions to avoid:	Avoid excessive heat, direct sunlight, moisture, high temperatures.
Incompatible Materials:	Incompatible with oxidizing agents, acidic agents, including acidic clays, and sources of ignition.
Hazardous decomposition:	When involved in a fire, this product will generate carbon monoxide
Hazardous reactions:	Oxidizing agents, mineral acids, halogenated organic compounds.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with the safety data sheet.
Symptoms or effects that may arise if the product is mishandled and the overexposure occurs are:

Acute Effects

Ingestion:

Small amounts of liquid aspirated into lungs during ingestion, or from vomiting. Ingestion large amounts of this product will result on headaches, nausea, dizziness and tracheal burning.

Eye Contact:

This product is irritating to eyes but will not permanently damage eye tissue.

Skin Contact:

This product is irritating to skin and may result in dryness and cracking of skin.

Inhalation:

Irritating to respiratory tract. Exposure to high concentrations over an extended period of time may result on muscles weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations and possible loss of consciousness.

Chronic Effects:

This product contain n-hexane a confirmed toxicant to target organs and systems, there is evidence of potentially irreversible damage to the peripheral nervous system, particularly arms and legs

Other health effects information:

The effects of the constituent of this product show incidents of experiment teratogenic and reproductive effects and mutation data has been reported

Toxicological information:

Actual oral toxicity	LD50	3600mg/kg

12. ECOLOGICAL INFORMATION

Persistence/ degradability:	No data available
Mobility:	No data available for this product.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities.
Packaging may still contain fumes and vapours that are flammable and harmful

Special precautions for landfill of incineration

This product is not suitable for disposal by either landfill or via municipal sewers, drain, natural streams or rivers. This product is ash less and can be burned directly in appropriate equipment.

14. TRANSPORT INFORMATION

UN no.	1219
Proper shipping name:	Flammable liquid N.O.S
Dangerous goods class:	3
Packaging group:	II
Hazchem code:	3(Y) E

This product is classified as Dangerous Goods Class 3, packaging group II , please consult the land Transport Rule, DG 2005, and NZS 5433:2007 Transport of Dangerous Goods on land for information

15. REGULATORY INFORMATION

HSNO Approval No:	HSR001180
Group Standard:	Additives, process chemicals and raw materials (flammable) Group Standard 2006
HSNO Classification:	3.1B, 6.1E, 6.3B, 6.4A

16. OTHER INFORMATION

New Zealand National Poison Information Centre:	0800 764 766
New Zealand Emergency Services:	111
Super Shine Products Limited:	+64 9 276 1591

Every endeavour has been made to ensure that the information contained in this publication is reliable and offered in good faith. It is meant to describe the safety requirements of our products and should not be construed as guaranteeing specific properties. Customers are encouraged to conduct their own tests as end user suitability of the product for particular uses is beyond our control. The information is not intended as an inducement to bargain and no warranty expressed or implied is made as to its accuracy, reliability or completeness. Super shine Products Limited accepts no liability for loss, injury or damage arising from reliance upon the information contained in this data sheet except in conjunction with the proper use of the product to which it refers. Due care should be taken that the use and disposal of this product is in compliance with appropriate Local Councils regulations.