
Section 1 - Identification of Chemical Product and Company

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Trade Name:	Illume Spectrum
Proper Shipping Name:	ISOPROPANOL (ISOPROPYL ALCOHOL)
Product Use:	General solvent, alcoholic solution for nail industry.
Creation Date:	March, 2017

Section 2 - Hazards Identification

Hazardclassification Of Mixture

- This product is classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; **DANGEROUS GOODS.**
- This material is hazardous according to Safe Work Australia; **HAZARDOUS SUBSTANCE.**

SUSMP Schedule: NOT SCHEDULED

Poison Schedule Hazard Category:

- | | |
|-------------|--|
| Category 2: | Eye irritation |
| Category 3: | Specific target organ toxicity - single exposure |
| Category 3: | Flammable liquids |

Pictograms



Hazard Statements

Signal Word: DANGER

- H225:** Highly flammable liquid and vapour
H320: Causes eye irritation
H336: May cause drowsiness or dizziness

Precautionary Statements

GENERAL

- P101** If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking

PREVENTION

- P233** Keep container tightly closed
P240 Ground/bond container and receiving equipment
P241 Use explosion-proof electrical/ventilation/lighting equipment

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- P242** Use only non-sparking tools
P243 Take precautionary measures against static discharge
P261 Avoid breathing mist/vapours/spray
P264 Wash thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P280 Wear eye protection/face protection

RESPONSE

P303 + P361 + P353 IF ON SKIN (or hair):

Take off contaminated clothing and wash before reuse. 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 foam/water spray/fog for extinction

STORAGE

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

DISPOSAL

P501 Dispose of contents/container in accordance with local / regional / national / international regulations.

Section 3 - Composition/Information on Ingredients

Chemical identity of ingredients	CAS Number(s) for ingredients	Proportion of ingredients	Hazard Codes
Isopropanol	67-63-0	80%	H225 H320 H336
Water	7732-18-5	20%	-

If the sum of ingredients is less than 100%, the material consists of further ingredients determined not to be hazardous as listed in HCIS.

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 11 26** from anywhere in Australia (**0800 764 766** in New Zealand) and is available at all times. Have this MSDS with you when you call.

Immediate Medical Attention And Special Treatment

TREAT SYMPTOMATICALLY.

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and

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loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.

Skin Contact:

If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. If irritation occurs seek medical advice.

Eye Contact:

If in eyes, hold eyes open, flood with water for at least 15 minutes. If redness, burning, blurred vision, or swelling persist transport to nearest medical facility for additional treatment.

Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by the mouth to an unconscious patient. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get to a doctor or hospital quickly.

Section 5 - Fire - Fighting Measures

5.1 Suitable Extinguishing Media:

Alcohol stable foam, water spray or fog.

Dry chemical powder, carbon dioxide may be used for small fires only.

5.2 Unsuitable Extinguishing Media: Water Jet

5.3 Specific Hazards arising from the Substance or Mixture:

Highly flammable liquid. Vapour may travel a considerable distance to source of ignition and flash back. May form flammable vapour mixtures with air.

5.4 Recommendations for Fire Fighting Personnel:

On burning will emit toxic fumes, including those of oxides of carbon. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

5.5 Hazchem or Emergency action code: 2YE

Section 6 - Accidental Release Measures

6.1 Emergency Procedures / Environmental Precautions:

Shut off all possible sources of ignition. Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

6.2 Personal Precautions / Protective Equipment:

Wear protective equipment to prevent skin and eye contact and breathing in vapours.

6.3 Methods And Materials For Containment And Cleaning Up:

Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use non-sparking tools.

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Section 7 - Handling and Storage

This material is a **Class 3 FLAMMABLE LIQUID** and must be stored, maintained and used in accordance with the relevant regulations.

7.1 Precautions For Safe Handling:

Avoid skin and eye contact and breathing in vapour. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. Take precautionary measures against static discharges.

7.2 Conditions of Safe Storage, including any Incompatibilities:

Store in a cool, dry, well ventilated place. Store away from sources of heat or ignition.
Store away from incompatible materials described in Section 10.
Keep containers closed when not in use - check regularly for leaks.

Section 8 - Exposure Controls / Personal Protection

8.1 Control Parameters:

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia:
Isopropyl Alcohol: 983mg/m³ (400ppm) TWA (8hr), 1230mg/m³ (500ppm) STEL

8.2 Biological Limit Values: No biological limit allocated.

8.3 Engineering Controls

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use. If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

8.4 Personal Protective Equipment (PPE)

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR.



Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties:

- Appearance: Clear blue liquid with an alcoholic odour.
- Flammability: Product is highly flammable
- Melting Point: No data

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• Boiling Point:	No data
• Flash Point:	26.4°C (by calculation)
• Auto Ignition Temp:	425°C
• Vapour Pressure:	33mm Hg @20°C
• Volatiles:	100%
• Evaporation Rate:	1.298
• Vapour Pressure (mmHg):	4.1
• Vapour Density (air =1):	2
• Flammability Limits:	LEL: 2%v/v ; UEL: 12%v/v
• Specific Gravity:	0.845 @20°C
• Autoignition:	No data
• Solubility in water:	Miscible

Section 10 - Stability And Reactivity

Chemical Reactivity	Stable under normal conditions of use
Chemical Stability	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of Hazardous Reactions	Hazardous polymerisation will not occur.
Conditions to Avoid	Avoid exposure to heat, sources of ignition, and open flame.
Incompatible Materials	Incompatible with strong oxidising agents, strong acids, Palladium, alkali metals.
Hazardous Decomposition Products	Combustion can produce carbon monoxide and/or carbon dioxide. Strong acid: May cause violent reaction. Alkali metals or alkali earth metals: may release flammable toxic gases.

Section 11 - Toxicological Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

a) Ingestion:

Material may be irritant to the mucous membranes of the respiratory tract (airways). May include nausea, vomiting and central nervous system depression (as for inhalation).

b) Eye Contact:

Vapours may irritate the eyes. Liquid or mists may severely irritate or damage the eyes.

c) Skin Contact:

Mild irritant. Prolonged contact may cause defatting of skin which can lead to dermatitis.

d) Inhalation:

Breathing of high vapour concentrations may cause central nervous system depression resulting in headaches, dizziness, nausea, loss of coordination, impaired judgement; continued inhalation may result in unconsciousness and/or death. Aspiration in to lung may cause pneumonitis.

Acute

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Acute toxicity (ATE _{mix})	Expected to be of low toxicity - LD ₅₀ Oral >8500mg/kg
Skin corrosion/irritation	Low toxicity: LD ₅₀ Dermal > 2000mg/kg. Not irritating to skin. Prolonged contact may cause defatting of skin which can lead to dermatitis.
Serious eye damage/irritation	Irritating to eyes.
Respiratory or skin sensitisation	Not expected to be a sensitizer.
Germ cell mutagenicity	Not expected to be mutagenic.
Carcinogenicity	Not expected to be carcinogenic.
Reproductive toxicity	Not expected to impair fertility.
Specific Target Organ Toxicity (STOT) – single exposure:	Low toxicity: LD ₅₀ Inhalation > 20mg/l (8 hours). Inhalation of vapours or mists may cause irritation to the respiratory system. High concentrations may cause central nervous system depression
Specific Target Organ Toxicity (STOT) – repeated exposure:	No data available.
Aspiration hazard	Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Section 12 - Ecological Information

ECOTOXICITY: Avoid contaminating waterways. Bio-concentration Factor (BCF): 0.5

Acute Toxicity

Fish	Low toxicity: LC/EC/IC ₅₀ > 100mg/l
Aquatic invertebrate	Low toxicity: LC/EC/IC ₅₀ > 100mg/l
Algae	Expected to have low toxicity: LC/EC/IC ₅₀ > 100mg/l
Microorganisms	Low toxicity: LC/EC/IC ₅₀ > 100mg/l

Chronic toxicity

Fish	Data not available
Aquatic invertebrate	Data not available
Algae	Data not available
Microorganisms	Data not available

PERSISTENCE AND DEGRADABILITY:

Results from 4 experiments showed that after 5 days (20) in the sewage, isopropyl alcohol can decompose 58% of the BOD theoretical value. When released into water, it is expected to evaporate (estimated half-life is 5.4 days) and can be biodegraded (although it decomposed quickly in the laboratory but there is no relevant data in natural water sources). When released into the air, it is expected to undergo photolysis (half-life is 1 to several days). Since it is water-soluble, it may be washed down by the rain. Half-life (air): 62-72hr Half-life (water surface): 24-168hr Half-life (underground water): 48-336hr Half-life (soil): 24- 168hr

MOBILITY:

When released into the soil, its high vapor pressure, faced with low adsorption from the soil, will cause it to evaporate quickly and seep into the ground.

ENVIRONMENTAL FATE (EXPOSURE): Do NOT let product reach drains, sewers or waterways.

BIOACCUMULATIVE POTENTIAL: Will not accumulate inside the body.

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Section 13 - Disposal Considerations

DISPOSAL METHODS AND CONTAINERS:

Refer to State Land Waste Management Authority. Empty containers must be decontaminated. Normally suitable for disposal at approved land waste site.

Section 14 - Transport Information

14.1 ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; **DANGEROUS GOODS**.

UN NUMBER:	1290
UN PROPER SHIPPING NAME:	ISOPROPANOL
CLASS AND SUBSIDIARY RISK:	3
HAZCHEM CODE:	2YE
PACKING GROUP:	II
IERG NUMBER:	16



14.2 MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; **DANGEROUS GOODS**.

UN NUMBER:	1290
UN PROPER SHIPPING NAME:	ISOPROPANOL
CLASS:	3
PACKING GROUP:	II
IMDG EMS FIRE:	F-E
IMDG EMS SPILL:	S-D



14.3 AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; **DANGEROUS GOODS**.

UN NUMBER:	1290
UN PROPER SHIPPING NAME:	ISOPROPANOL
CLASS:	3
PACKING GROUP:	II

Section 15 - Regulatory Information

CLASSIFICATION

This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Category 2:	Eye irritation
Category 3:	Specific target organ toxicity - single exposure
Category 3:	Flammable liquids

HAZARD STATEMENT(S)

H225: Highly flammable liquid and vapour

H320: Causes eye irritation

H336: May cause drowsiness or dizziness

POISONS SCHEDULE (SUSMP): NOT SCHEDULED

AICS: All ingredients are on the Australian Inventory of Chemical Substances.

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Section 16 - Other Information

EMERGENCIES ONLY CONTACT	000 (Australia)
POISONS INFORMATION CENTRE	13 11 26 (Australia)
	0800 764 766 (New Zealand)
• Date of preparation / Last revision of the SDS	7 March, 2017
• Print Date	7 March, 2017
• Prepared by	SDS Manager

Key/legend to abbreviations and acronyms used in the SDS

ADG	Australian Code for the Transport of Dangerous Goods by Road and Rail
ACGIH	American Conference of Governmental Industrial Hygienists
ASCC	Australian Safety and Compensation Council
ATE	Acute Toxicity Estimates
BEI®	Biological exposure indices (BEI) are values used for guidance to assess biological monitoring results. With respect to chemical exposure, biological monitoring is the measurement of the concentration of a chemical marker in a human biological media that indicates exposure. They are not developed for use as legal standards.
Carcinogen Category Number:	<ol style="list-style-type: none"> 1. Established human carcinogen 2. Probably human carcinogen 3. Substances suspected of having carcinogenic potential
Code AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
EPG	Emergency Procedure Guide (superseded by IERG)
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HCIS	<p>The Hazardous Chemical Information System (HCIS) is a database of information on chemicals that have been classified in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).</p> <p>HCIS replaces the previous Hazardous Substance Information System (HSIS).</p> <p>HSIS is a database of information on substances classified in accordance with Australia's previous hazardous substance classification system, the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)].</p>
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IERG	HB 76-2004 Dangerous goods - Initial Emergency Response Guide
IMDG	International Maritime Dangerous Goods. A uniform code for transport of dangerous goods at sea.
LEL	Lower Flammable (Explosive) Limits in air;
LD50	Lethal Dose sufficient to kill 50% of test population
NIOSH	National Institute for Occupational Safety and Health The United States federal agency responsible for conducting research and making recommendations for the prevention of workrelated injury and illness.
NOAEL	No Observed Adverse Effect Level
NOEL	No Observable Effect Level
NOHSC	National Occupational Health and Safety Commission
NTP	National Toxicology Program (USA)
PEL	Permissible Exposure Limit

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RTECS	Registry of Toxic Effects of Chemical Substances (Symyx Technologies')
TCLO	Toxic Concentration Low
TDLO	Toxic Dose Low : lowest dosage per unit of bodyweight (typically stated in milligrams per kilogram) of a substance known to have produced signs of toxicity in a particular animal species.
TLV Threshold Limit Value (ACGIH):	The time weighted average used to describe exposure which is harmless to most of the population when exposed 8 hours per day, 40 hours per week.
TWA (Time Weighted Average):	The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week. These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
SAFEWORK	Independent statutory agency with primary responsibility to improve occupational health and safety and workers' compensation arrangements across Australia.
STEL (Short Term Exposure Limit):	The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UEL	Upper Flammable (Explosive) Limits in air;
UN Number	United Nations Number
VOC Volatile Organic Content - defined as:	"Any chemical compound based on carbon chains or rings with a vapour pressure greater than 0.1mm of mercury (Hg) or 0.0135Kpa at 25°C. This definition excludes reactive diluents, which are designed to be chemically bound into the cured film. It also includes all constituents >0.5% by volume of formulation, which are organic compounds with a boiling point < 250°C".

Literature References

SOURCES FOR DATA

Safety Data Sheets from Suppliers
Hazardous Chemical Information System (HCIS) - ASCC Australia (on-line)
GHS (Globally Harmonised System of Substance Classification & Labelling)
REACH (European Chemical Substance Information System)
ADG Code Ed 7.4
SUSMP N° 16

DISCLAIMER

This SDS 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 SDS 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 Hawley Manicure. 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.

Hawley Manicure however makes no warranty whatsoever, expressed, implied or of merchantability regarding the accuracy of such data or the results to be obtained from the use thereof and assumes no responsibility for injury to buyer or third persons or for any damage to property, Buyer assumes all risks.

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