

## Section 1 - Identification of Chemical Product and Company

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Trade Name: **Illume Restore**  
Proper Shipping Name: FLAMMABLE LIQUID NOS.  
Product Use: Liquid paint & graffiti remover & cleaner.  
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:** S5 CAUTION

### Poison Schedule Hazard Category:

Category 1: Serious Eye Damage/Irritation  
Category 1B: Toxic to Reproduction  
Category 2: Skin Corrosion/Irritation  
Category 3: Specific target organ toxicity (single exposure)  
Category 3: Flammable liquids  
Category 4: Acute toxicity

Pictograms



## Hazard Statements

### Signal Word: DANGER

**H226** Flammable liquid and vapour  
**H302** Harmful if swallowed  
**H315** Causes skin irritation.  
**H318** Causes serious eye damage  
**H335** May cause respiratory irritation.  
**H336** May cause drowsiness or dizziness  
**H360D** May damage the unborn child.

## 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.

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## PREVENTION

- P201** Obtain special instructions before use.
- P202** Do not handle until all safety precautions have been read and understood.
- P210** Keep away from heat / sparks / open flames / hot surfaces. No smoking.
- P243** Take precautionary measures against static discharge.
- P271** Use only outdoors or in a well-ventilated area.
- P240** Ground/bond container and receiving equipment.
- P241** Use explosion-proof electrical/ventilating/lighting/equipment
- P242** Use only non-sparking tools.
- P261** Avoid breathing mist / vapours / spray.
- P264** Wash hands thoroughly after handling.
- P270** Do not eat, drink or smoke when using this product.
- P271** Use only outdoors or in a well-ventilated area.
- P280** Wear protective gloves / protective clothing / eye protection / face protection.
- P281** Use personal protective equipment as required.

## RESPONSE

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

Take off immediately all contaminated clothing. Rinse skin with water/shower.

**P321:** Specific treatment (see First Aid Measures on Safety Data Sheet).

### **P332+P313:**

If skin irritation occurs: Get medical advice/attention.

**P362:** Take off contaminated clothing and wash before reuse.

### **P305+P351+P338 IF IN EYES:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### **P310:**

Immediately call a POISON CENTER or doctor/physician.

### **P304+P340 IF INHALED:**

Remove person to fresh air and keep comfortable for breathing.

### **P301+P312 IF SWALLOWED:**

Call a POISON CENTER or doctor/physician if you feel unwell.

**P330:** Rinse mouth.

**P312:** Call a POISON CENTER or doctor/physician if you feel unwell.

**P308+P313:** If exposed or concerned: Get medical advice/attention.

### **P370+P378:**

In case of fire: Use extinguishing media as outlined in Section 5 of this Safety Data Sheet to extinguish.

## 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.

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### Section 3 - Composition/Information on Ingredients

Chemical identity of ingredients	CAS Number(s) for ingredients	Proportion of ingredients	Hazard Codes
2-pyrrolidinone, 1-methyl-	872-50-4	30-60%	H319 H315 H335 H360D
1-methoxy-2-propanol	107-98-2	30-60%	H226 H336
Alcohols, C12-14, ethoxylated	68439-50-9	<5%	Below cut-off

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 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 or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

#### Eye Contact:

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

#### Ingestion:

If swallowed, rinse mouth with water, do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Never give anything by the mouth to an unconscious patient. Seek immediate medical assistance.

### Section 5 - Fire - Fighting Measures

#### 5.1 Suitable Extinguishing Media:

Alcohol resistant foam is the preferred firefighting medium but, if it is not available, fine water spray or water fog can be used.

#### 5.2 Unsuitable Extinguishing Media: Water Jet

#### 5.3 Specific Hazards arising from the Substance or Mixture:

Flammable liquid. May form flammable vapour mixtures with air. Vapour may travel a considerable distance

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to source of ignition and flash back. Burning liquid may float on water.

#### 5.4 Recommendations for Fire Fighting Personnel:

On burning will emit toxic fumes, including those of oxides of nitrogen, and carbon monoxide. Keep containers cool with water spray. If safe to do so, remove containers from path of fire. 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: 2Y

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### Section 6 - Accidental Release Measures

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#### 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:

Slippery when spilt. Avoid accidents, clean up immediately. 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

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Classified as a **Class 3 FLAMMABLE LIQUID** for the purpose of storage and handling, do so in accordance with the requirements of AS 1940.

Refer to State Regulations for storage and transport requirements. This material is a **Scheduled Poison S5** 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. Flameproof equipment is necessary in all areas where this chemical is being used. Nearby equipment must be earthed. Vapour may travel a considerable distance to source of ignition and flash back. When transferring propylene glycol ethers with flash points at or below 60°C into fixed site vessels, the vessel should be purged and inerted prior to transfer. Propylene glycol ethers may be transferred into air atmospheres if the temperature of the product and the ambient temperature within the shipping container are both at least 16.7°C less than the product's flash point. After loading, nitrogen blanketing is required if the contents of the transportation container could exceed a temperature of 16.7°C less than the product flash point during any subsequent transportation activities. If the product flash point is less than 16.7°C above either the ambient temperature of the transportation container or the storage temperature of the product, the container should be purged and inerted with nitrogen prior to loading and nitrogen blanketed after loading. The purging of all empty shipping containers, regardless of flashpoint, is recommended when received with air atmospheres. Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Take precautionary measures against static discharges.

#### 7.2 Conditions of Safe Storage, including any Incompatibilities:

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

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## Section 8 - Exposure Controls / Personal Protection

### 8.1 Control Parameters

No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituent(s):

Substance	TWA (ppm)	TWA (mg/m <sup>3</sup> )	STEL(ppm)	STEL(mg/m <sup>3</sup> )	Notice
2-pyrrolidinone, 1-methyl-	309	75	103	25	Sk
Propylene glycol monomethyl ether	553	150	369	100	

*\*Notice: Sk (Skin) - Absorption through the skin may be a significant source of exposure.  
The exposure standard is invalidated if such contact should occur.*

### 8.2 Engineering Controls

Ensure ventilation is adequate to maintain air concentrations below 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.



Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If determined by a risk assessment an inhalation risk exists, wear an organic vapour/particulate respirator or an air supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

## Section 9 - Physical and Chemical Properties

### Information on basic physical and chemical properties:

- Appearance: Mobile fluid
- Colour: Water - white to straw coloured
- Odour: Slight ether odour
- Flammability: Classed as flammable
- Melting Point: N/A
- Boiling Point: 120-210°C

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- Flash Point: 40°C by calculation
- Vapour Pressure: 12.5mmHg @ 25°C
- Volatiles: 93%
- Vapour Density: Unknown
- Flammability Limits: LEL : 1.3 UEL: 12.8
- Specific Gravity: 0.96
- Solubility in water: Soluble

### Section 10 - Stability And Reactivity

<b>Chemical Reactivity</b>	Hygroscopic: absorbs moisture or water from surrounding air.
<b>Chemical Stability</b>	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Possibility of Hazardous Reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to Avoid</b>	Avoid exposure to direct sunlight. Avoid exposure to moisture. Avoid exposure to humidity.
<b>Incompatible Materials</b>	Incompatible with strong oxidising agents, strong reducing agents, moisture.
<b>Hazardous Decomposition Products</b>	Upon combustion oxides of carbon (CO, CO <sub>x</sub> ) and nitrogen (NO <sub>x</sub> )

### 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:** No adverse effects expected, however, large amounts may cause nausea and vomiting.
- b) Eye Contact:** An eye irritant.
- c) Skin Contact:** Contact with skin will result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis. Can be absorbed through the skin with resultant adverse effects.
- d) Inhalation:** Breathing in vapour will produce respiratory irritation and dizziness.

#### Acute

**LD<sub>50</sub> ATE<sub>MIX</sub> = 3785mg/kg**

Acute toxicity	Not expected to be toxic LD <sub>50</sub> ATE <sub>MIX</sub> = 3150mg/kg
Skin corrosion/irritation	Expected to be irritant.
Serious eye damage/irritation	Expected to be irritant.
Respiratory or skin sensitisation	Expected to be a respiratory irritant. Not expected to be a sensitizer.
Germ cell mutagenicity	Not expected to be mutagenic.
Carcinogenicity	Not expected to be carcinogenic.

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Reproductive toxicity	May damage fertility or the unborn child. May cause damage to the testes.
Specific Target Organ Toxicity (STOT) – single exposure:	May cause drowsiness or dizziness.
Specific Target Organ Toxicity (STOT) – repeated exposure:	No data on product – however on At very high repeated inhalation doses (1.0 mg/L), NMP caused focal pneumonia, bone marrow hypoplasia and atrophy of lymphoid tissue, 0.5 mg/L was the no effect level.
Aspiration hazard	Not expected to be an Aspiration hazard.

## Section 12 - Ecological Information

**ECOTOXICITY:** Avoid contaminating waterways, drains and sewers.

### Acute Toxicity

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

### Chronic toxicity

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

**PERSISTENCE AND DEGRADABILITY:** No Data Available

**MOBILITY:** No Data Available

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

**BIOACCUMULATIVE POTENTIAL:** No Data Available

## 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:	1993
UN PROPER SHIPPING NAME:	FLAMMABLE LIQUID NOS
CLASS AND SUBSIDIARY RISK:	3
HAZCHEM CODE:	2Y
PACKING GROUP:	III
SPECIAL PRECAUTIONS FOR USER:	Not applicable



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## 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:	1993
UN PROPER SHIPPING NAME:	FLAMMABLE LIQUID NOS
CLASS:	3
PACKING GROUP:	III
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:	1993
UN PROPER SHIPPING NAME:	FLAMMABLE LIQUID NOS
CLASS:	3
PACKING GROUP:	III

## Section 15 - Regulatory Information

### CLASSIFICATION

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

### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Category 1:	Serious Eye Damage/Irritation
Category 1B:	Toxic to Reproduction
Category 2:	Skin Corrosion/Irritation
Category 3:	Specific target organ toxicity (single exposure)
Category 3:	Flammable liquids
Category 4:	Acute toxicity

### HAZARD STATEMENT(S)

- H226** Flammable liquid and vapour
- H302** Harmful if swallowed
- H315** Causes skin irritation.
- H318** Causes serious eye damage
- H335** May cause respiratory irritation.
- H336** May cause drowsiness or dizziness
- H360D** May damage the unborn child.

**POISONS SCHEDULE (SUSMP):** S5 CAUTION

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

## Section 16 - Other Information

<b>EMERGENCIES ONLY CONTACT</b>	000 (Australia)
<b>POISONS INFORMATION CENTRE</b>	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

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### Key/legend to abbreviations and acronyms used in the SDS

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<b>ADG</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ASCC</b>	Australian Safety and Compensation Council
<b>ATE</b>	Acute Toxicity Estimates
<b>BEI®</b>	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.
<b>Carcinogen Category Number:</b>	
	1. Established human carcinogen
	2. Probably human carcinogen
	3. Substances suspected of having carcinogenic potential
<b>Code AICS</b>	Australian Inventory of Chemical Substances
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>EPG</b>	Emergency Procedure Guide ( superseded by IERG)
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>HCIS</b>	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). HCIS replaces the previous Hazardous Substance Information System (HSIS). 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)].
<b>IARC</b>	International Agency for Research on Cancer
<b>IATA</b>	International Air Transport Association
<b>IERG</b>	HB 76-2004 Dangerous goods - Initial Emergency Response Guide
<b>IMDG</b>	International Maritime Dangerous Goods. A uniform code for transport of dangerous goods at sea.
<b>LEL</b>	Lower Flammable (Explosive) Limits in air;
<b>LD50</b>	Lethal Dose sufficient to kill 50% of test population
<b>NIOSH</b>	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.
<b>NOAEL</b>	No Observed Adverse Effect Level
<b>NOEL</b>	No Observable Effect Level
<b>NOHSC</b>	National Occupational Health and Safety Commission
<b>NTP</b>	National Toxicology Program (USA)
<b>PEL</b>	Permissible Exposure Limit
<b>RTECS</b>	Registry of Toxic Effects of Chemical Substances (Symyx Technologies')
<b>TCLO</b>	Toxic Concentration Low
<b>TDLO</b>	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.
<b>TLV Threshold Limit Value (ACGIH):</b>	
	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):**

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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".

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## Literature References

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### 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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## MATERIAL SAFETY DATA SHEET