Industrial Methylated Spirit

DATE OF ISSUE: September 2019 REPLACES: December 2016

PVM Enterprises Pty. Ltd.

Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

SUPPLIER	PVM Enterprises Pty Ltd Address: 118 Swann Drive, Derrimut, VIC 3026 Telephone: 1300 657 057 Emergency Telephone No: 1800 443 393
PRODUCT	**Product Name**: INDUSTRIAL METHYLATED SPIRITS **Other Names:** FLAMMABLE LIQUID, N.O.S. (Contains: flammable hydrocarbons); IMS95 **Manufacturer's Code:** None
USE	A solvent used as a viscosity control agent in paints and inks.

This Material Safety Data Sheet (MSDS) is issued by the Supplier in accordance with National standards and guidelines from the Australian Safety and Compensation Council (ASCC, formerly National Occupational Health and Safety Commission - NOHSC). The information in it must not be altered, deleted or added to. The Supplier will not accept any responsibility for any changes made to its MSDS by any other person or organization. The Supplier will issue a new MSDS when there is a change in product specifications and/or ASCC standards, codes, guidelines, or Regulations.

SECTION 2: HAZARD IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE: Classified as Hazardous according to the criteria of the Australian Safety and Compensation Council ASCC (formerly NOHSC) Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition.
Product is classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

GHS Classification:

Flammable liquids- Category 3
Acute Toxicity, Oral- Category 5
Flammable Liquid - Category 2
Hazardous to the Aquatic Environment, Acute Hazard- Category 2

GHS LABEL ELEMENTS
Symbol (s)

Signal Word: DANGER

Hazard Statements:
H225: Highly flammable liquid and vapor.
PRECAUTIONARY STATEMENT(s)

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 equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/ face protection. P281: Use personal protective equipment as required.

Response

P370 +P378: In case of fire: Use appropriate media for extinction.
P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P312: Call a POISON CENTRE or doctor/physician if you feel unwell.
P332+P313: If Skin irritation occurs. Get medical advice/attention.
P322: Specific measures (see details on this label).
P321: Specific treatment (see details on label).
P363: Wash contaminated clothing before reuse.
P362: Take of contaminated clothing and wash before reuse.

Disposal

P501: Dispose of contents and container to appropriate waste site of reclaimer in accordance with local and national regulations.

Other Hazards which do not result in classification None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Classification of components according to GHS

Chemical Name	Synonyms	CAS	Hazard Class (Category)	Hazard Statement	Concentration
Ethanol	Ethyl Alcohol	64-17-5	Flam. Liq. 2	H225	.>=95%W
Water		7732-18-5	N/A	N/A	<=5%W

SECTION 4: FIRST AID MEASURESEC

Information:

Consult a physician. Show this safety data sheet to the doctor in attendance

SECTION 5: FIRE FIGHTING MEASURESE

Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Eyes:	Immediately flush eyes with large amounts of water for at least 15minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.
Skin:	Remove contaminated clothing, wash off with plenty of water and soap. Consult a physician if any symptoms arise.
Inhaled:	Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
First Aid Facilities:	Eye wash fountains and safety showers should be available for emergency use.
Advice to Doctor:	The most important known symptoms and effects are described in the labelling and in section Treat symptomatically. 11.
Most important symptoms and effects acute and delayed	No data available
Immediate medical attention, special treatment	No data available

Specific Hazards: Flammable liquid and vapour

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable extinguishing media No data available

Special protective precautions and equipment for fire fighters: Wear full protective clothing and self-contained breathing apparatus**.**

Other advice Keep adjacent containers cool by spraying with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see chapter 8 of this Material Safety Data Sheet.

Personal precautions, protective equipment and emergency procedures.	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.
Environmental procedures	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and material for containment and cleaning up	**c**ontain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13).

Additional advice: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained. The vapor is heavier than air, spreads along the ground and distant ignition is possible. See Chapter 13 for information on disposal. For guidance on selection of personal protective equipment see chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see chapter 13 of this Safety Data Sheet

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking Take measures to prevent the build up of electrostatic charge.
Refer to guidance under handling section.

Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Hygroscopic.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

Material	Type	ppm	mg/m3
Ethanol	TWA	1,000ppm	1,880mg/m3

Biological Exposure Index (BEI):

No biological limit allocated.

ENGINEERING CONTROLS

Ventilation: Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:1997 : Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements.

Appropriate Engineering Controls: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Use sealed systems as far as possible. Firewater monitors and deluge systems are recommended. Eye washes and showers for emergency use.

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PERSONAL PROTECTION

Hand Protection	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739, AS/NZS:2161) made from the following materials may provide suitable chemical protection: Longer term protection: Viton. Incidental contact/Splash protection: Nitrile rubber. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
Skin Protection:	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Eference should be made to AS/NZS2161.1, Occupational protective gloves - Selection, use and maintenance.
Eye Protection:	Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial applications..
Respiratory Protection:	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for organic gases and vapors [Type A boiling point > 65°C (149°F)] meeting EN14387. Where respiratory protective equipment is required, use a full-face mask. Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.
Body protection:	Chemical resistant gloves/gauntlets, boots, and apron. Where risk of splashing or in spillage clean up, use chemical resistant one-piece overall with integral hood. Wear antistatic and flame retardant clothing.
Smoking & Other Dusts	Smoking must be prohibited in all areas where this product is used - see safety information on flammability.
Thermal Hazards	Not Applicable
Monitoring Methods	Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Examples of sources of recommended exposure measurement methods are given below or contact the supplier.
Monitoring Methods	Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapor

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless clear liquid
Odour	Alcoholic
Melting Point	-117°C
Boiling Point	78°C
Solubility in Water	Completely Soluble
Specific Gravity (H2O=1) at 20°C	800 – 812 kg/m3
pH Value	No data available.
Vapour Pressure	44 mmHg at 20°C
Vapour Density	1.59
Flash Point	13°C
Ignition Temperature	No data available
Flammable Limits LEL	3.5% (V)
Flammable Limits UEL	19.0% (V)
Kinetic viscosity	No data available
Auto ignition temperature	392°C

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Incompatible Materials:	Strong oxidizing agents
Conditions to avoid:	Heat, sparks, flame and build-up of static electricity.
Hazardous Decomposition Products:	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
Hazardous Reactions:	Hazardous polymerisation will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity
LD50 Oral - rat - 7,060 mg/kg
Remarks: Lungs, Thorax, or Respiration:Other changes.
LC50 Inhalation - rat - 10 h - 20000 ppm

Skin corrosion/irritation
Skin - rabbit
Result: Irritating to skin. - 24 h

Serious eye damage/eye irritation
Eyes - rabbit
Result: Mild eye irritation - 24 h
(Draize Test)

Respiratory or skin sensitisation
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
Carcinogenicity - mouse - Oral

Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Liver:Tumors. Blood:Lymphomas including Hodgkin's disease.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
Reproductive toxicity - Human - female - Oral
Effects on Newborn: Apgar score (human only). Effects on Newborn: Other neonatal measures or effects.
Effects on Newborn: Drug dependence.

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard
no data available

Additional Information
RTECS: KQ6300000
Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicity: Expected to be harmful to fish, microorganisms and aquatic invertebrates. Expected to be toxic to algae

Persistence and Degradability: Biodegradable

Mobility: No data available

SECTION 13: DISPOSAL CONSIDERATIONSTIO

Dispose of waste according to federal, EPA, state and local regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

SECTION 14: TRANSPORT INFORMATION

Proper Shipping Name: Ethanol
UN number: 1170
DG Class: 3 Flammable

Subsidiary Risk 1:	None Allocated
Packaging Group:	II
HAZCHEM code:	·2YE
Marine Pollutant:	No
Poison schedule:	5
Special Precautions for User:	Refer to incompatibilities in section 7 and stability and reactivity information in section 10.

ADDITIONAL TRANSPORT REQUIREMENTS: Nil

SECTION 15: REGULATORY INFORMATION 15: REGULATORY I

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Chemical inventory status

Listed in AICS, DLS, INV (CN), ENCS (JP), TSCA, EINECS, KECI (KR) and PICCS (PH)

SECTION 16: OTHER INFORMATION

ADDITIONAL INFORMATION

Australian Standards References:

AS 1020	The Control of undesirable static electricity.
AS 1076	Code of Practice for selection, installation and maintenance of electrical apparatus and associated equipment for use in explosive atmospheres (other than mining applications) – Parts 1 to 13.
AS/NZS 1336	Recommended Practices for Occupational Eye Protection
AS/NZS 1715	Selection, Use and Maintenance of Respiratory Protective Devices
AS/NZS 1716	Respiratory Protective Devices
AS 1940	The Storage and Handling of Flammable and Combustible Liquids.
AS 2161	Industrial Safety Gloves and Mittens (excluding electrical and medical gloves)
AS 2380	Electrical equipment for explosive atmospheres – Explosion Protection Techniques (Parts 1 to 9).
AS 3000	Electrical installations (known as the Australian/New Zealand Wiring Rules).

Other References:

NOHSC:2011(2003)	National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition, April 2003, National Occupational Health and Safety Commission.
NOHSC; 2012 1994,	National Code of Practice for the Labeling of Workplace Substances, March Australian Government Publishing Service, Canberra.
NES	National Occupational Exposure Standards for workplace Atmospheric Contaminants (NES) Australian Safety and Compensation Council, ASCC (Formerly NOHSC) 1995 as amended.
ADG Code 7th Edition	Australian Dangerous Goods Code 7th Edition

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END OF MSDS

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