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VERSION NO. : 2

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Safety Data Sheet

1. Identification Of The Material & Supplier

Product Name : Mineral Turpentine

Other Names(s) : Turps.

Chemical Formula : 61280 M220 159

Use or Description : Industrial solvent.

Suppliers Name : Hi-Tec Ink

Street Address : Unit 4 / 231 Annex Road , Christchurch 8053, New Zealand.

Telephone : +64 3 366 0100

Facsimile :

Emergency Telephone : National Poisons & Hazardous Chemicals
Information Centre :
NZ Emergency Services :
Geoffrey Blakey-Scholes :

0800 POISON (0800 764 766)
Dial 111 (if in doubt)
Bus +64 3 666-0100
Mobile 021 312 676

2. Hazards Identification

Hazard Classification:

- 3.1C - Flammable liquid: and vapour.
- 6.1D (Aspiration) - May be fatal if swallowed and enters airways.
- 6.1D (Oral) - Harmful if swallowed.
- 6.3A - Substance that causes skin irritation.
- 6.4A - Causes serious eye irritation.
- 6.8B - Suspected of damaging fertility or the unborn child.
- 6.9 (Narcotic) - May cause drowsiness or dizziness.
- 6.9 (Respiratory) - May cause respiratory irritation.
- 6.9B (Inhalation) - May cause damage to organs through prolonged or repeated exposure.
- 9.1B - Substance that may be toxic to aquatic life with long lasting effects.
- 9.1D - Toxic to aquatic life.

Hazard statement codes:

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H336 May cause drowsiness or dizziness.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H401 Toxic to aquatic life.

Precautionary statement codes - prevention:

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of the reach of children.
 P103 Read label before use.
 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.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/lighting equipment.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P264 Wash any exposed part of the body thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P281 Use personal protection equipment as required.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P271 Use only outdoors or in a well-ventilated area.

Precautionary statement codes - Response

P303+P361+P353 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
 P302 + P352 If on skin: Wash with plenty of soap and water.
 P332 + P313 If skin irritation occurs: Get medical advice/attention.
 P301 + P310 If swallowed: Immediately call a POISON CENTRE or doctor/physician.
 P331 Do not induce vomiting.
 P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: get medical advice/attention.
 P308 + P313 If exposed or concerned: get medical advice/attention.
 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.
 P370+P378 In case of fire: Use foam, carbon dioxide or dry chemical.
 P391 Collect spillage.

Precautionary statement codes - Storage:

P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

Precautionary statement codes - Disposal:

P501 Disposal of this substance must be in accordance with the Hazardous Substances (Disposal) Regulations 2001 with reference to all local council regulations. This may also include any method of disposal that must be avoided.

3. Composition / Information On Ingredients

Potentially Hazardous Ingredients	% by weight (approx)	TLV (TWA)		STEL (TWA)		Note CAS No.
		mg/m3	ppm	mg/m3	ppm	
Light Aromatic Petroleum Solvent	50	560	100			64742-88-7
Medium Aliphatic Petroleum Solvent	50					64745-95-6

4. First Aid Measures

Inhalation

Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical attention and call a physician.
 If breathing has stopped apply artificial respiration.

Skin Contact

contaminated clothing. Launder contaminated clothing before reuse.

Eye Contact

Flush thoroughly with water for at least 15 minutes. If irritation occurs get medical assistance.

Ingestion

Do not induce vomiting. Never give liquid to a person showing signs of being sleepy. Get medical assistance. (Note to physician: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.)

**Health Hazard :
Information**

Effects Of Overexposure : Respiratory irritation, dizziness, nausea, loss of consciousness. Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.
Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

5. Fire Fighting Measures

Extinguishing Media to be used

☒ Foam ☒ Dry Chemical ☒ Water Spray
☒ Carbon Dioxide ☐ Alcohol Foam ☐ Other...

Special Fire Fighting Procedures

fire-fighters should wear full protective clothing including self-contained breathing apparatus. Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. Use foam, dry chemical, or carbon dioxide to extinguish fire. Avoid spraying water directly into storage containers due to danger of boil over.

Unusual Fire and Explosion Hazards

Vapour density heavier than air therefore vapour accumulation could flash and/or explode if ignited. Avoid spraying water directly into storage containers due to danger of boil over. Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

6. Accidental Release Measures

Spill and Leak Procedure

Clean up personnel should wear full protective clothing including self-contained breathing apparatus. Report spills as required to appropriate authorities. Absorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at appropriate waste disposal facility in accordance with current applicable laws and regulations.

7. Handling & Storage

Handling	Use in well ventilated area away from all ignition sources. Wear chemical-type goggles. Approved respiratory protective equipment must be used when vapour or mist concentrations exceed established Threshold Limit Values (TLV) of components. Ventilation equipment must be of an approved explosion proof rating.
Storage	Ground and bond all transfer and storage equipment. Use non sparking tools and equipment. Drums must be grounded and bonded and equipment with self-closing valves, pressure vacuum bungs and flame arresters. Outside or detached storage preferred. Store containers in a cool area away from all ignition sources. Keep container closed. Open slowly in order to control possible pressure release. Do not pressurize, cut heat, or weld containers without commercial cleaning or reconditioning. Containers remain hazardous when empty. Continue to observe all precautions.

8. Exposure Control / Personal Protection

Recommended Personal Protective Equipment to be worn during use of product: (X)

<input checked="" type="checkbox"/> Protective Overalls	<input checked="" type="checkbox"/> Synthetic Apron
<input checked="" type="checkbox"/> Safety Glasses	<input checked="" type="checkbox"/> Vapour Respirator
<input checked="" type="checkbox"/> Splash Goggles	<input type="checkbox"/> Dust & Vapour Respirator
<input type="checkbox"/> Face Shield	<input type="checkbox"/> Full Protective Suit
<input type="checkbox"/> Airline Hood or Mask	<input checked="" type="checkbox"/> Boots
<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Other...

9. Physical And Chemical Properties

Appearance and Odour

Clear colourless liquid, mild odour.

Density

0.860

Viscosity

0.95 CST at 25oC

Vapour Pressure,mm Hg at 20°

<25

Vapour Density (Air=1)

4.8

Melting Point/Freezing Point,°

-54

Aniline Point, ° (Mixed)

23

Refractive Index, @ 20°

1.458

Residue On Evaporation, mg/100ml

<5

Boiling Range,°C

149 - 191

Flash Point° Method

31oC

Evaporation Rate (BuAc=100)

26

% Volatile Matter (by weight)

100

Solubility in Water

Negligible

Aromatics, %

50 %

Colour

>25 (Saybolt)

pH

NA

Flammability Limit, %vol

Lower (LEL)

0.9

Upper (UEL)

6.0

Auto Ignition Temperature, °

230

NA = Not Applicable, NE = Not Established,
NR = Not Regulated Against D = Decomposes

10. Stability And Reactivity

Reactivity Data

Stable at room temperature and pressure.
Avoid sources of heat and ignition, open flames.
Hazardous reactions with oxidizing agents, mineral acids, halogenated organic compounds.

Hazardous Decomposition Byproducts

Carbon Monoxide

Hazardous Polymerization

☒ Will Not Occur ☐ May Occur ☐ Other...

11. Toxicological Information

Acute Effects of Overexposure

Ingestion	Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema. Ingesting any amount of this product will result in headaches, nausea, dizziness and tracheal burning.
Skin Contact	This product is irritating to the skin with prolonged exposure. It can produce moderate inflammation of the skin in a substantial number of individuals following direct contact, and/or produce significant, but moderate, inflammation when applied to the healthy intact skin of animals.
Inhalation	This product is irritating to the respiratory tract. Exposure to large concentrations over an extended period of time will result in muscle weakness, tingling, in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.
Eye Contact	This product is irritating to eyes, and may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye.
Delayed Effects	May cause damage to organs through prolonged or repeated exposure.
Mutagenic Effects	NR
Reproductive Effects	Suspected of damaging fertility or the unborn child.
Chronic Effects	This product may contain 0.1 to 1% of Ethyl benzene. the international Agency for research on Cancer has evaluated ethyl benzene and classified it as a "possible human carcinogen" based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Prolonged skin contact with low viscosity materials may de-fat the skin resulting in possible irritation

12. Ecological Information

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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. Ensure that empty packaging is allowed to dry.

Special Precautions for Landfill or Incineration.

This product is NOT suitable for disposal by either land fill or via municipal sewers, drains, natural stream or rivers. This product is ashless and can be burned directly in appropriate equipment.

14. Transport Information

IMCO No.	3.3	This product is classified as dangerous goods Class 3
UN No.	1263	
HAZCHEM	3 Y	
D/Goods Class	3.1C	
UN Packing Group	111	

15. Regulatory Information

This substance is to be managed using the conditions specified in an applicable Group Standard.
HSR Number - HSR002650 - Solvents (Flammable) Group Standard 2006

16. Other Information

Other Data.

IF PRINTED THIS MSDS SHEET IS UNCONTROLLED.

Hi - Tec Ink urges each customer or recipient of this MSDS to study it carefully to become aware of and the hazards associated with the product.

The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS. To promote safe handling, each customer or recipient should:

- (1) notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards of safety;
- (2) furnish this same information to each of its customers for the product; and
- (3) request its customers to notify their employees, customers, and other users of the product of this information.

NOTE: The information and recommendations contained in this data sheet have been compiled from sources believed to be reliable and represent the best current opinion on the subject. No warranty, guarantee or representation is made by the company as to the absolute correctness or sufficiency of any representation contained in this data sheet and the company assumes no responsibility in connection therewith. Nor can it be assumed that all acceptable safety measures are contained in this data sheet or that other additional measures may not be required under particular or exceptional circumstances or conditions.