Hi-Tec Ink

MSDS **Sort 1**
☒ Mainland ☒ Supplier ☐ Import

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VERSION NO. : 1
PAGE : 1 OF VARIABLE

Safety Data Sheet

1. Identification Of The Material & Supplier

Product Name : **Flushing Liquid**

Other Names(s) :

Chemical Formula : 85511

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 : 0800 POISON (0800 764 766)
NZ Emergency Services : Dial 111 (if in doubt)
Geoffrey Blakey-Scholes : Bus +64 3 666-0100
Mobile 021 312 676

2. Hazards Identification

Hazard Classification:
3.1D - Combustible Liquid
6.1D - Substance that is harmful in contact with skin.
6.1C - Substance that is toxic by inhalation.
6.4A - Substance that is irritating to the eye.

Hazard statement codes:
H227 Combustible liquid.
H312 Harmful in contact with skin.
H331 Toxic if inhaled.
H320 Causes eye irritation.

Precautionary statement codes - prevention:
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.
P260 Do not breathe fume/mist/vapours.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement codes - Response:
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.

P303+P361+P353 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
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.
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.
P362 Take off contaminated clothing and wash before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide or dry chemical.

Precautionary statement codes - Storage:
P403+P235 Store in a well-ventilated place. Keep cool.

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.
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3. Composition / Information On Ingredients

Potentially Hazardous Ingredients	% by weight (approx)	TLV (TWA)		STEL (TWA)		Note CAS No.
		mg/m3	ppm	mg/m3	ppm	
2-butoxyethyl acetate	65 - 100	133	20	333	50	112-07-2
2-methoxy-1-methylethyl acetate	3 - 10	275	50	550	100	108-65-6
Cyclohexanone	3 - 10	14.8	10	550	100	108-94-1
bis(2-ethoxyethyl) ether	0 - 0.5					112-36-7

4. First Aid Measures

Inhalation Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, use mouth to mouth resuscitation.

Skin Contact Wash contact areas with soap and water. Launder contaminated clothing before use.

Eye Contact Flush effected eye(s) thoroughly with water for at least 15 minutes. Seek medical attention.

Ingestion Do not induce vomiting. wash mouth thoroughly with water. Get medical assistance. (Note to physician: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.)

Health Hazard : Information Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident is required.

5. Fire Fighting Measures

Extinguishing Media to be used

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

Special Fire Fighting Procedures

Use water fog/spray for cooling of the exposed containers. Do not use direct water stream as it may spread fire. Notify authorities if liquid enters storm water drains. Evacuate surrounding area if necessary.
Use protective clothing. Consider fire fighting from a remote location as appropriate for safety.

Unusual Fire and Explosion Hazards

Not classified as flammable but will burn. Container may rupture from gas generation in a fire. Violent steam generation or eruption may occur upon application of direct water stream. Liquid is miscible with water. Burning can produce carbon monoxide and/or carbon dioxide.
During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic or irritating.

6. Accidental Release Measures

Spill and Leak Procedure

Procedures If Material Is Released Or Spilled: Extinguish or remove from all sources of ignition. 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, and product characteristics at time of disposal. For large spills: contain material and pump back into a holding tank for later disposal.

Waste Management: Dispose of waste by supervised incineration in compliance with applicable laws and regulations.

7. Handling & Storage

Handling

Avoid prolonged repeated skin contact. Avoid contact with eyes. Avoid contact with skin. Avoid inhalation of vapours or mists.
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. Do not smoke. It is essential that all who come in contact with this material maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using the toilet facilitates.

Storage

Store in a cool area. Ground and bond all transfer and storage equipment. Outside or detached storage preferred. Store containers in a cool area away from all ignition sources.

8. Exposure Control / Personal Protection

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

☒ Protective Overalls	☐ Synthetic Apron
☒ Safety Glasses	☒ Vapour Respirator
☒ Splash Goggles	☒ Dust & Vapour Respirator
☐ Face Shield	☐ Full Protective Suit
☐ Airline Hood or Mask	☒ Boots
☒ Gloves	☒ Other…

9. Physical And Chemical Properties

Appearance and Odour

Clear,colourless, liquid

Density
0.871

Boiling Range,°C
145

Viscosity
< 1.0

Flash Point° Method
69

Vapour Pressure,mm Hg at 20°
5

Evapouration Rate (BuAc=100)
240

Vapour Density (Air=1)
3.14

% Volatile Matter (by weight)
100

Melting Point/Freezing Point,°
N/A

Solubility in Water
not miscible

Aniline Point, ° (Mixed)
9 ASTM D611

Aromatics, %
N/A

Refractive Index, @ 20°
N/A

Colour
Clear

Residue On Evaporation, mg/100ml

pH

Flammability Limit, %vol **Lower (LEL)** 1.3 **Upper (UEL)** 10.8

Auto Ignition Temperature, °
280

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

10. Stability And Reactivity

Reactivity Data

Stability (thermal, light, etc.): Stable
No dangerous reactions known.

Hazardous Decomposition Byproducts

Carbon Monoxide, Carbon Dioxide, fumes, smoke

Hazardous Polymerization

☒ Will Not Occur ☐ May Occur ☐ Other…

11. Toxicological Information

Acute Effects of Overexposure

Ingestion Harmful if swallowed. Will irritate throat and tube to stomach and may cause nausea. Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema which can be fatal.

Skin Contact Harmful in contact with the skin. Irritating to skin. Frequent or prolonged contact with skin may cause dermatitis.

Inhalation Harmful by inhalation. the inhalation of vapours will cause dizziness and drowsiness. Possibility of organ damage through prolonged or repeated exposure. Central nervous system depression symptoms include headaches, dizziness and nausea. Continuing inhalation may result in unconsciousness, coma and/or death.

Eye Contact Irritant, Symptoms may include burning redness, swelling, burning sensation and/or blurred vision.

Delayed Effects	No carcinogenic effects or other adverse effects. Prolonged repeated skin contact with may defat the skin resulting in possible irritation and dermatitis. Inhalation may result in liver and kidney damage.
Mutagenic Effects	Negative in a series of assays on similar substances.
Reproductive Effects	No information available
Chronic Effects	Prolonged repeated skin contact with may defat the skin resulting in possible irritation and dermatitis.

12. Ecological Information

Ecotoxicity No data is available for this material

Persistence / Degradability Not Available

Mobility Not Available

Environment Protection Avoid contaminating waterways

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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.	N/A
UN No.	N/A
HAZCHEM	N/A
D/Goods Class	N/A
UN Packing Group	N/A

This product is not classified as a dangerous good for transport according to the classification criteria for land, sea or air transport.

15. Regulatory Information

National and or International Regulatory Information.
Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum degree of Hazard) Regulations 2001.
Group Standard:
Additives, Process Chemicals and Raw Materials (Flammable) Group Standard 2006
Hazardous Category.
Harmful, Irritant

16. Other Information

Other Data.

IF PRINTED THIS MSDS SHEET IS UNCONTROLLED.

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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.