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VERSION NO. : 1

PAGE : 1 OF VARIABLE



Safety Data Sheet

1. Identification Of The Material & Supplier

Product Name : **HiTec Substrate Primer**

Other Names(s) : Chlorinated polyolefines in solvents

Chemical Formula : 83577

Use or Description : Screen and pad printing primer

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 - Substance that is a Flammable Liquid and vapour.
- 6.1D - (Oral) - Substance that is harmful if swallowed.
- 6.1D - (Dermal) - Substance that is harmful in contact with skin.
- 6.3A - Substance that causes skin irritation.
- 6.4A - Substance that causes serious eye irritation.
- 6.1D - (Inhalation) - Substance that is harmful if inhaled.
- 6.9 - (Respiratory tract irritant) - Substance that may cause respiratory irritation.
- 6.8B - Substance that is suspected of damaging fertility or the unborn child.
- 6.9B - Suspected of causing damage to organs through prolonged exposure or repeated exposure.
- 9.1B - Substance that is toxic to aquatic life with long lasting effects.
- 9.3C - Substance that is harmful to terrestrial vertebrates.

Hazard statement codes:

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful if contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H373 Suspected of causing damage to organs through prolonged exposure or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H433 Harmful to terrestrial vertebrates.

Precautionary statement codes - prevention:

P102 Keep out of 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.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fumes/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.

Precautionary statement codes - Response:

P101 If medical advice is needed, have product container or label at hand.
P308 + P313 If exposed or concerned: Get medical advice / attention.
P303+P361+P353 IF ON SKIN: Remove/take off immediately all contaminated Clothing. Rinse skin with plenty of water /shower.
P363 Wash contaminated clothing before reuse.
P332 + P313 If skin irritation occurs: 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.
P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P330 Rinse mouth.
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.
P370+P378 In case of fire: Use foam, carbon dioxide, dry chemical or water spray on large fires for extinction.
P391 Collect spillage.

Precautionary statement codes - Storage:

P403+P235 Store in a well-ventilated place. Keep container tightly closed. 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	
xylene	<75	375	100			1330-20-7,
Ethyl Benzene	<25		100			100-41-4,
Chlorobenzene	trace	.		.	.	108-90-7

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	Remove contaminated clothing and wash contact areas with soap and water. Seek medical assistance if irritation develops. Do not wear ordinary clothing wet with this product.
Eye Contact	Flush effected eye(s) thoroughly with water for at least 15 minutes. Remove contact lenses if present and easy to do so. Seek medical assistance if irritation persists
Ingestion	Do NOT induce vomiting. Rinse mouth with water and seek immediate medical assistance. Never give anything by mouth to an unconscious person. Note to physician: Xylol if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.
Health Hazard : Information	Treat according to symptoms. Causes central nervous system depression.

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 to keep fire exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop leak. Water spray may be used to flush spills away from exposures. For fires in enclosed areas, Fire fighters must use self contained breathing apparatus. Prevent run off from fire control or dilution from entering streams, sewers, or drinking water supply. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations

Unusual Fire and Explosion Hazards

Under fire conditions this product may emit toxic and / or irritating fumes including carbon monoxide and carbon dioxide.
 Vapour density heavier than air. Vapour accumulation could flash and / or explode if in contact with open flame.
 Water or foam may cause frothing which can be violent and possibly endanger the fire fighter especially if sprayed onto containers of hot, burning liquid.

6. Accidental Release Measures

Spill and Leak Procedure

Evacuate spill area and eliminate all ignition sources. Report spill to local fire brigade. If possible remove leaking containers to detached area while wearing approved respirator and personal protection equipment. Bung spill with inert material (eg.Sand,Earth Etc.)and absorb spilled product on fire retardant sawdust,diatomaceous earth etc. Transfer remaining product in leaking container to new container and solid absorbent materials to separate container for disposal. Dispose of waste at an appropriate disposal facility in accordance with local authority by laws,the local government act 1974 and the regulations made therein. Prevent spills from entering storm sewers or drains and contact with soil.

7. Handling & Storage

Handling	Avoid prolonged repeated skin contact. Avoid contact with eyes. Avoid contact with skin. Avoid inhalation of vapours or mists.
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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 use near welding or other ignition sources and avoid sparks. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. 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 facilities.

Storage

Store in a cool area. 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.

8. Exposure Control / Personal Protection

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

- | | |
|---|---|
| <input checked="" type="checkbox"/> Protective Overalls | <input type="checkbox"/> Synthetic Apron |
| <input checked="" type="checkbox"/> Safety Glasses | <input checked="" type="checkbox"/> Vapour Respirator |
| <input 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 with mild aromatic odour

Density

0.871

Viscosity

< 1.0

Vapour Pressure, mm Hg at 20°

0.8-1.2

Vapour Density (Air=1)

3.7

Melting Point/Freezing Point, °

-95

Aniline Point, ° (Mixed)

9 ASTM D611

Refractive Index, @ 20°

1.497 ASTM D1747

Residue On Evaporation, mg/100ml

2 ASTM D1353

Boiling Range, °C

110.1 to 110.9 ASTM D86

Flash Point° Method

26 ASTM D56, TCC

Evaporation Rate (BuAc=100)

240

% Volatile Matter (by weight)

100

Solubility in Water

0.175

Aromatics, %

>99 ASTM D875

Colour

5 ASTM D1209 APHA

pH

Flammability Limit, %vol

Lower (LEL)

1.0

Upper (UEL)

7.1

Auto Ignition Temperature, °

550

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

10. Stability And Reactivity

Reactivity Data

This product is considered to be stable under normal conditions, however exposure to the following should be avoided: Strong oxidisers, heat, sparks, open flame, and a build up of static electricity. .

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	Ingestion may cause nausea, vomiting and CNS depression with symptoms including drowsiness, dizziness, weakness, fatigue, headache, confusion and possible unconsciousness.
Skin Contact	Harmful in contact with the skin. Irritating to skin. Frequent or prolonged contact with skin may cause dermatitis.
Inhalation	Harmful by inhalation. High vapour concentrations are irritating to the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects.
Eye Contact	May cause irritation to eyes. Symptoms may include redness, tearing, stinging and swelling.
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	Both xylene and ethylbenzene are suspected of causing adverse effects on fertility and development.
Reproductive Effects	Both xylene and ethylbenzene are suspected of causing adverse effects on fertility and development. In addition, ethylbenzene is a suspected carcinogen.
Chronic Effects	Causes central nervous system depression. Severe exposure may cause blurred vision, tremors, shallow and rapid breathing, delirium and unconsciousness. Prolonged or repeated exposure may affect liver and kidneys.

12. Ecological Information

Ecotoxicity:

Aquatic toxicity: Product is classified as being Ecotoxicity to aquatic life with long-lasting effects.

Ecotoxicity Information:

Xylene	Rainbow trout	EC50 (96 hr)	3.3 mg/L
	<i>Palaemonetes pugio</i> (crustacean)	EC50 (48 hr)	8.4 mg/L
	<i>Skeletonema costatum</i> (alga)	EC50 (72 hr)	10.0 mg/L
Ethylbenzene	<i>Daphnia magna</i>	EC50 (48 hr)	2.1 mg/L
	<i>Oncorhynchus mykiss</i> (freshwater fish)	EC50 (96 hr)	4.2 mg/L
	<i>Selenastrum capricornutum</i> (alga)	EC50 (72 hr)	4.6 mg/L

Persistence/degradability: Does not bioaccumulate significantly.

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.

14. Transport Information

IMCO No.	3.2	This material is classified as a class 3- Flammable Liquid according to NZS 5433:1999 Transport of Dangerous Goods on Land.
UN No.	1307	Must not be loaded in the same freight container or on the same vehicle with;
HAZCHEM	3[Y]E	(Class 1) Explosives, (Class 2.1) Flammable gasses, (Class 2.3) Toxic gasses, (Class 4.2) Spontaneous combustible substances, (Class 5.1) Oxidising substances, (Class 5.2) Organic peroxide, (Class 7) Radioactive materials unless specifically exempted, (Class 4.3) Dangerous when wet substances.
D/Goods Class	3.1C	
UN Packing Group	III	

15. Regulatory Information

Country / Region: Australia, New Zealand
Inventory: ACS, NZIoC
Status: Listed

EPA New Zealand Approved code: HSR000983

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.