Revision: 2.0 Date: 31.03.2015

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1.	SECTION 1: IDENTIFICATION OF THE SUBS	
1.1	Product identifier	
	Product Name	M-Bond Curing Agent – Type 15
	Chemical Name	3-Diethylaminopropylamine
	CAS No.	104-78-9
	EINECS No.	203-236-4
	REACH Registration No.	None assigned.
1.2	Recommended use of the chemical and restrictions	······ • •·····g·····
	on use	
	Identified Use(s)	Adhesives.
	Uses Advised Against	None known.
1.3	Supplier's details	None known.
1.5		
	Company Identification	
		Stroudley Road
		Basingstoke
		Hampshire
		RG24 8FW
		United Kingdom
	Telephone	+44 (0) 1256 462131
	Fax	+44 (0) 1256 471441
	E-Mail (competent person)	mm.uk@vishaypg.com
	,	
1.4	Emergency Phone No.	(00-1) 703-527-3887
		CHEMTREC
2.	SECTION 2: HAZARDS IDENTIFICATION	
۷.	JEGHUNZ: HAZARUJ IDEN HEIGAHUN	
2.1	Classification of the substance or mixture	
		Flam. Lig. 3; H226
2.1	Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP)	Flam. Liq. 3; H226 Acute Tox. 4: H302
2.1		Acute Tox. 4; H302
2.1		Acute Tox. 4; H302 Acute Tox. 4; H312
2.1		Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314
2.1		Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317
2.1		Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314
2.1		Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317
2.1 2.1.1	Regulation (EC) No. 1272/2008 (CLP)	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335 R10: Flammable.
2.1 2.1.1	Regulation (EC) No. 1272/2008 (CLP)	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335 R10: Flammable. Xn; R21/22: Harmful in contact with skin and if swallowed.
2.1 2.1.1	Regulation (EC) No. 1272/2008 (CLP)	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335 R10: Flammable. Xn; R21/22: Harmful in contact with skin and if swallowed. C; R34: Causes burns.
2.1 2.1.1	Regulation (EC) No. 1272/2008 (CLP)	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335 R10: Flammable. Xn; R21/22: Harmful in contact with skin and if swallowed. C; R34: Causes burns. R43: May cause sensitization by skin contact.
2.1 2.1.1	Regulation (EC) No. 1272/2008 (CLP)	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335 R10: Flammable. Xn; R21/22: Harmful in contact with skin and if swallowed. C; R34: Causes burns.
2.1 2.1.1 2.1.2	Regulation (EC) No. 1272/2008 (CLP)	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335 R10: Flammable. Xn; R21/22: Harmful in contact with skin and if swallowed. C; R34: Causes burns. R43: May cause sensitization by skin contact.
2.1 2.1.1 2.1.2	Regulation (EC) No. 1272/2008 (CLP) Directive 67/548/EEC & Directive 1999/45/EC	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335 R10: Flammable. Xn; R21/22: Harmful in contact with skin and if swallowed. C; R34: Causes burns. R43: May cause sensitization by skin contact. Xi; R37: Irritating to respiratory system.
2.1 2.1.1	Regulation (EC) No. 1272/2008 (CLP) Directive 67/548/EEC & Directive 1999/45/EC Label elements Product Name	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335 R10: Flammable. Xn; R21/22: Harmful in contact with skin and if swallowed. C; R34: Causes burns. R43: May cause sensitization by skin contact. Xi; R37: Irritating to respiratory system. According to Regulation (EC) No. 1272/2008 (CLP)
2.1 2.1.1 2.1.2	Regulation (EC) No. 1272/2008 (CLP) Directive 67/548/EEC & Directive 1999/45/EC	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335 R10: Flammable. Xn; R21/22: Harmful in contact with skin and if swallowed. C; R34: Causes burns. R43: May cause sensitization by skin contact. Xi; R37: Irritating to respiratory system. According to Regulation (EC) No. 1272/2008 (CLP)
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2.1 2.1.1 2.1.2	Regulation (EC) No. 1272/2008 (CLP) Directive 67/548/EEC & Directive 1999/45/EC Label elements Product Name	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335 R10: Flammable. Xn; R21/22: Harmful in contact with skin and if swallowed. C; R34: Causes burns. R43: May cause sensitization by skin contact. Xi; R37: Irritating to respiratory system. According to Regulation (EC) No. 1272/2008 (CLP)
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2.1 2.1.1 2.1.2	Regulation (EC) No. 1272/2008 (CLP) Directive 67/548/EEC & Directive 1999/45/EC Label elements Product Name Hazard Pictogram(s)	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335 R10: Flammable. Xn; R21/22: Harmful in contact with skin and if swallowed. C; R34: Causes burns. R43: May cause sensitization by skin contact. Xi; R37: Irritating to respiratory system. According to Regulation (EC) No. 1272/2008 (CLP) M-Bond Curing Agent – Type 15 Coording to Regulation (EC) No. 1272/2008 (CLP) M-Bond Curing Agent – Type 15 Danger H226: Flammable liquid and vapour.
2.1 2.1.1 2.1.2	Regulation (EC) No. 1272/2008 (CLP) Directive 67/548/EEC & Directive 1999/45/EC Label elements Product Name Hazard Pictogram(s) Signal Word(s)	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335 R10: Flammable. Xn; R21/22: Harmful in contact with skin and if swallowed. C; R34: Causes burns. R43: May cause sensitization by skin contact. Xi; R37: Irritating to respiratory system. According to Regulation (EC) No. 1272/2008 (CLP) M-Bond Curing Agent – Type 15 Corriginal Corriginal Corrigina Corriginal Corri
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	H317: May cause an allergic skin reaction.
	H335: May cause respiratory irritation.
Precautionary Statement(s)	P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all
	contaminated clothing. Rinse skin with water/shower.
	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.
Others have a de	Marca

2.3 Other hazards

None

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical identity of the substance	CAS No.	EC No.	REACH Registration No.
3-Diethylaminopropylamine	104-78-9	203-236-4	None assigned

4. SECTION 4: FIRST AID MEASURES



Description of first aid measures 4.1 Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF INHALED: Do not use mouth-to-mouth resuscitation. Skin Contact IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER/doctor. Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required. Ingestion IF SWALLOWED: Rinse mouth. Do not induce vomiting unless instructed to do so by medical personnel. Immediately call a POISON CENTER/doctor. 4.2 Most important symptoms and effects, both acute and Harmful if swallowed or in contact with skin. Causes severe skin burns and eye delayed damage. May cause an allergic skin reaction. May cause respiratory irritation. (Respiratory tract, Exposure route: Inhalation) Indication of any immediate medical attention and 4.3 Treat symptomatically. IF IN EYES: Obtain prompt consultation, preferably from special treatment needed an ophthalmologist. Chemical eye burns may require extended irrigation. 5. **SECTION 5: FIREFIGHTING MEASURES**

5.1	Extinguishing media	
	Suitable Extinguishing media	As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical,
		foam or waterspray.
	Unsuitable extinguishing media	Do not use water jet. Direct water jet may spread the fire.
5.2	Special hazards arising from the substance or mixture	Flammable liquid and vapour. May decompose in a fire giving off toxic fumes.
		Decomposes in a fire giving off toxic fumes: Ammonia, Nitrogen oxides, Carbon
		monoxide and Carbon dioxide. Vapours are heavier than air and may travel
		considerable distances to a source of ignition and flashback.
5.3	Advice for fire-fighters	Fire fighters should wear complete protective clothing including self-contained

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breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

6.	SECTION 6: ACCIDENTAL RELEASE MEASURES	
6.1	Personal precautions, protective equipment and emergency procedures	Avoid contact with skin, eyes or clothing. Avoid breathing vapours. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure adequate ventilation. Use personal protective equipment as required. See Section: 8.
6.2	Environmental precautions	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.
6.3	Methods and material for containment and cleaning up	Use non-sparking equipment when picking up flammable spill. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste (2008/98/EEC).
6.4	Reference to other sections	See Section: 8, 13
7.	SECTION 7: HANDLING AND STORAGE	
7.1	Precautions for safe handling	Avoid contact with skin, eyes or clothing. Do not breathe vapour. Ensure adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.
7.2	Conditions for safe storage, including any incompatibilities Storage temperature Storage life	Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ambient. Stable under normal conditions.
7.3	Incompatible materials Specific end use(s)	Keep away from: Strong oxidising agents, Acids, Nitrates, Nitrites, Halogens, Carbon dioxide, Nitric oxide and Water. May react violently with: Alkalis. Adhesives. See Section: 1.2
8.	SECTION 8: EXPOSURE CONTROLS/PERSO	DNAL PROTECTION
8.1 8.1.1 8.1.2 8.1.3 8.2	Control parameters Occupational Exposure Limits Biological limit value PNECs and DNELs Exposure controls	Not established. Not established. Not established.
	• • • • • • • • • • • • • • • • • • •	

- 8.2.1 Appropriate engineering controls
- 8.2.2 Individual protection measures, such as personal protective equipment (PPE)

Eye/ face protection



Ensure adequate ventilation. or Use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Guarantee that the eye flushing systems and safety showers are located close to the working place.

General hygiene measures for the handling of chemicals are applicable. Avoid contact with skin, eyes or clothing. Do not breathe vapour. Wash hands before breaks and after work. Keep work clothes separately. Do not eat, drink or smoke at the work place.

Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

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Respiratory protection



Thermal hazards 8.2.3 Environmental Exposure Controls Body protection: Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

In case of inadequate ventilation wear respiratory protection. Open system(s): Wear suitable respiratory protective equipment.

Not applicable. Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Appearance	Almost colourless to pale yellow Liquid
	Odour	Amine-like Odour
	Odour threshold	Not available.
	рН	Not established.
	Melting point/freezing point	Not established.
	Initial boiling point and boiling range	168-171°C
	Flash point	53°C
	Evaporation rate	Not available.
	Flammability (solid, gas)	Not applicable - Liquid
	Upper/lower flammability or explosive limits	Flammable Limits (Lower) (%v/v) 1, Flammable Limits (Upper) (%v/v) 7.5
	Vapour pressure	2.2 mbar @ 20°C
	Vapour density	Not available.
	Relative density	0.82 (H2O = 1)
	Solubility(ies)	Miscible with: Water
	Partition coefficient: n-octanol/water	Not available.
	Auto-ignition temperature	Not available.
	Decomposition Temperature	Not available.
	Viscosity	Not available.
	Explosive properties	Not explosive.
	Oxidising properties	Not oxidising.
9.2	Other information	VOC: 0%

10. SECTION 10: STABILITY AND REACTIVITY

10.1	Stability and reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	May react violently with: Alkalis.
10.4	Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5	Incompatible materials	Keep away from: Strong oxidising agents, Acids, Nitrates, Nitrites, Halogens, Carbon dioxide, Nitric oxide and Water.
10.6	Hazardous decomposition product(s)	Decomposes in a fire giving off toxic fumes: Ammonia, Nitrogen oxides, Carbon monoxide and Carbon dioxide.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Substances in preparations / mixtures) Acute toxicity Ingestion Ingestion Acute Tox. 4: Harmful if swallowed. Inhalation Acute Tox. 4: May be harmful in contact with skin.

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	(Harmonised Classification(s) for 3-Diethylaminopropylamine)
Skin Contact	Based upon the available data, the classification criteria are not met.
Skin corrosion/irritation	Skin Corr. 1B: Causes severe skin burns. (Harmonised Classification(s) for 3-
	Diethylaminopropylamine)
Serious eye damage/irritation	Skin Corr. 1B: Causes serious eye damage. (Harmonised Classification(s) for 3-
	Diethylaminopropylamine)
Respiratory or skin sensitization	Skin Sens. 1: May cause an allergic skin reaction. (Harmonised Classification(s)
	for 3-Diethylaminopropylamine)
Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
Carcinogenicity	Based upon the available data, the classification criteria are not met.
Reproductive toxicity	Based upon the available data, the classification criteria are not met.
STOT - single exposure	STOT SE 3: May cause respiratory irritation. (Respiratory tract, Exposure route:
	Inhalation). (Existing ECHA registration(s) for 3-Diethylaminopropylamine)
STOT - repeated exposure	Based upon the available data, the classification criteria are not met.
Aspiration hazard	Based upon the available data, the classification criteria are not met.
Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

11.2

- 12.2 Persistence and degradability
- 12.3 Bioaccumulative potential
- 12.4 Mobility in soil
- 12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste (2008/98/EEC). Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation. Dispose of contents in accordance with local, state or national legislation.

Based upon the available data, the classification criteria are not met.

Estimated Mixture LC50 >100 mg/l (Fish) This product is readily biodegradable in water.

Not classified as PBT or vPvB.

None known.

The product has low potential for bioaccumulation.

The product is predicted to have high mobility in soil.

13.2 Additional Information

14. SECTION 14: TRANSPORT INFORMATION

		ADR/RID / IMDG / IATA
14.1	UN number	UN 2684
14.2	Proper Shipping Name	3-DIETHYLAMINOPROPYL-AMINE
14.3	Transport hazard class(es)	3 + 8
14.4	Packing group	111
14.5	Environmental hazards	Not classified as a Marine Pollutant.
14.6	Special precautions for user	See Section: 2
14.7	Transport in bulk according to Annex II of MARPOL	Not applicable
	73/78 and the IBC Code	
14.8	Additional Information	None

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	
	SVHCs	None
15.1.2	National regulations	Water hazard class: 1
15.2	Chemical Safety Assessment	Not available.

15.

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16. **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1-16.

References: Existing Safety Data Sheet (SDS), Existing ECHA registration(s) for 3-Diethylaminopropylamine (CAS# 104-78-9) and Harmonised Classification(s) for 3-Diethylaminopropylamine (CAS# 104-78-9).

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	verv Persistent and verv Bioaccumulative

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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Annex to the extended Safety Data Sheet (eSDS)

No information available.

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