according to applicable EC directive

HUNTSMAN

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Ident-No: XH 160 B

Version *1* Revision Date 22.03.2009 Print Date 09.04.2009

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product information

Trade name	:	XH 160 B
Use	:	Adhesive system
Company	:	Huntsman Advanced Materials (Europe)BVBA Everslaan 45 3078 Everberg / Belgium
Telephone	:	+41619661599
Telefax	:	+41619661589
Emergency telephone number	:	+32 35 751 234 (in France ORFILA : +33(0)145425959)

For further Product EHS related questions concerning this document or its contents, please contact:

E-Mail: global_product_ehs_admat@huntsman.com

2. HAZARDS IDENTIFICATION

Causes burns. Harmful if swallowed. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Aliphatic polyamine

CAS-No.	:	25620-58-0
EINECS-NR.	:	247-134-8

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrase(s)	Concentration [%]
trimethylhexamethylenediami	25620-58-	С	R22 R34 R43 R52/53	0.00 - <= 100.00
ne	0			
EC-No.: 247-134-8				

4. FIRST AID MEASURES

Inhalation	: Move to fresh air. If symptoms persist, call a physician.
Eye contact	: Rinse immediately with plenty of water for at least 15 minutes. Call a physician immediately.
Skin contact	: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
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SAFETY DATA SHEET according to applicable EC directive	HUNTSMAN			
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	If skin irritation persists, call a physician.			
Ingestion	 Immediately give plenty of water (if possible charcoal slurry). If a person vomits when lying on his back, place him in the recovery position. Oxygen or artificial respiration if needed. Do not induce vomiting. 			
5. FIRE-FIGHTING MEASU	RES			
Suitable extinguishing media	: Water spray. Carbon dioxide (CO2). Foam. Dry powder.			
Extinguishing media which must not be used for safety reasons	: High volume water jet.			
Special protective	Wear self-contained breathing apparatus and protective suit.			
equipment for fire-fighters Further information	Burning produces obnoxious and toxic fumes. Carbon oxides. Nitrogen oxides.			
6. ACCIDENTAL RELEASE	MEASURES			
Personal precautions	 Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust. 			
Environmental precautions	 Prevent product from entering drains. Do not contaminate surface water. Avoid subsoil penetration. 			
Methods for cleaning up	: Soak up with inert absorbent material and dispose of as hazardous waste.			
7. HANDLING AND STORA	GE			
Handling				
Advice on safe handling	 Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of aerosol. Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Handle and open container with care. 			
Storage				
Further information on	: Keep away from food, drink and animal feeding stuffs.			
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storage conditions		o container tightly clo o at temperatures be	osed. etween 2 and 40 ℃.		
Storage hazard class Huntsman Advanced Materials	untsman Advanced				
EXPOSURE CONTRO	LS / PERS	ONAL PROTEC	CTION		
Components with workp	place contro	l parameters			
Components	CAS-No.	Control parameters	Update	Basis	
Engineering measures					
No special precautions re	equired.				
Personal protective equ	ipment				
Respiratory protection	: In ca equip	oment.	ntilation wear suitable		
Eye protection		tly fitting safety gogg e-shield.	gles.		
Hand protection	Butyl Ethyl Mate min< Nitrike Neop Use g (Eurc Suita frequ mate supp Addit	I rubber I Vinyl Alcohol Lami erial of gloves for sho BTT<480 min): e rubber gloves approved to ope), F739 (US). ability and durability uency and durability uency and duration of erial and dexterity. A bliers.	ng term application (E inate (EVAL) ort term/splash applic relevant standards e of a glove is depende of contact, chemical r lways seek advice fro	cation (10 e.g. EN 374 ent on usage, e.g. resistance of glove om glove	
Skin and body protection		ective suit. ty shoes.			
Protective measures	Keep	ot breathe vapours/ o away from sources d contact with skin,	s of ignition - No smo	king.	
PHYSICAL AND CHEI		OPERTIES			
Form	: liqui	id			

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	clear
Odour	: amine-like
рН	: 11.3 at (20 ℃) 1:1 in water
Boiling point	: > 200 °C
Thermal decomposition	: > 200 °C
Flash point	: 108 °C Method: DIN 51758 (Pensky-Martens Closed Cup)
Vapour pressure	: approx.6 Pa at 20 ℃
Density	: 0.86 - 0.87 g/cm3 at 20 ℃
Water solubility	: at 20 °C Note: miscible
Miscibility with water	: miscible
Viscosity, dynamic	: approx.5 mPa.s at 25 ℃
10. STABILITY AND REAC	ΤΙVΙΤΥ
Conditions to avoid	: Note: Take necessary action to avoid static electricity discharge.
Materials to avoid	: Strong acids and strong bases. Strong oxidizing agents.
Hazardous decomposition	: Carbon oxides.
products	Nitrogen oxides. Burning produces obnoxious and toxic fumes.
11. TOXICOLOGICAL INFO	RMATION
Acute oral toxicity	: LD50 rat Dose: 910 mg/kg
Eye irritation	: Corrosive rabbit
Skin irritation	: Corrosive rabbit dermal

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SAFETY DATA SHEET according to applicable EC directive HUNTSMAN Enriching lives through innovation

Enriching lives through innovation **D B** Print Date 09.04.2009 : Causes sensitization. guinea pig dermal

12. ECOLOGICAL INFORMATION

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Sensitization

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ility	: Result: Not readily biodegradable.
effects	
sh :	: LC50 Species: Zebrabaerbling Dose: 1,000 mg/l Exposure time: 96 h
aphnia	: EC50 Species: Daphnia magna Straus 1820 Dose: 31.5 mg/l Exposure time: 24 h
gae	EC50 Species: Scenedesmus subspicat Dose: 29.5 mg/l Exposure time: 72 h
acteria	: IC50 Species: Dose: 100 mg/l Exposure time: 3 h
rmation on ecolo	ду
ological	 Avoid subsoil penetration. Prevent product from entering drains. Do not contaminate surface water.
CONSIDERA	TIONS
:	: Waste Key Number: 55352 Must be incinerated, when in compliance with local regulation
:	: Empty containers can be landfilled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.
	aphnia gae acteria rmation on ecolo

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ADR:	
UN-No: Class: Classification code: Packaging group: Risk No.: ADR/RID-Labels: Proper shipping name:	2327 8 C7 III 80 8 TRIMETHYLHEXAMETHYLENEDIAMINE SOLUTION
RID:	
UN-No: Class: Packaging group: Risk No.: ADR/RID-Labels: Proper shipping name:	2327 8 III 80 8 TRIMETHYLHEXAMETHYLENEDIAMINE SOLUTION
Sea transport	
IMDG:	
UN-No: Class: Packaging group: ADR/RID-Labels: MFAG: EmS: Proper shipping name:	2327 8 III 8 F-A S-B TRIMETHYLHEXAMETHYLENEDIAMINES SOLUTION
Air transport	
IATA-DGR:	
UN/ID No.: Class: Packaging group: Packing instruction (cargo aircraft):	UN 2327 8 III 820
Max. Qty/Pack.: (999.00 = No limit)	60.00 L
Packing instruction (passenger aircraft):	818
Max. Qty/Pack.: (999.00 = No limit)	5.00 L
ADR/RID-Labels: Proper shipping name:	8 TRIMETHYLHEXAMETHYLENEDIAMINES SOLUTION
15. REGULATORY INFOR	ΜΑΤΙΟΝ
Labelling according to EE	

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Symbol(s):	:	С	Corrosive		
R-phrase(s)	:	R22 R52/53	Harmful if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
		R43 R34	May cause sensitization by skin contact. Causes burns.		
S-phrase(s)	:	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.		
		S36/37/39	Wear suitable protective clothing, gloves		
		S45	and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).		
Hazardous components which must be listed on th label		trimethylhexam EC-No.: 247-13	ethylenediamine 34-8		
National legislation	National legislation				
Notification status					
: EINECS yes Notification number: 247-134-8					
	:	TSCA yes			
16. OTHER INFORMATIO					
List of R-phrases (Section	-				
	-				
	R22 Harmful if swallowed. R34 Causes burns.				
R43	May ca	use sensitization	zation by skin contact.		
abbreviation for the Chem to the Health and Safety a Materials should take app	The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974. Users of products supplied by Huntsman Advanced Materials should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH).				
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