SAFETY DATA SHEET



HARDENER HV 4854 CI

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

COWFAN I/UNDERTAKING					
Identification of the substance or preparation					
Product name	: HARDENER HV 4854 CI				
Product type	: Liquid.				
Product description	: Preparation				
Use of the substance/preparation	: Hardener for adhesive systems				
Supplier	 Huntsman Advanced Materials (Europe)BVBA Everslaan 45 3078 Everberg / Belgium Tel.: +41 61 299 20 41 Fax: +41 61 299 20 40 				
Emergency telephone number	: EUROPE: +32 35 75 1234 France ORFILA: +33(0)145425959 ASIA: +65 6336-6011 China: +86 20 39377888 Australia: 1800 786 152 New Zealand: 0800 767 437 USA: +1/800/424.9300				

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

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The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	:	C; R34 R43 N; R51/53
Physical/chemical hazards	:	Not applicable.
Human health hazards	:	Causes burns. May cause sensitisation by skin contact.
Environmental hazards	:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS number	%	Number	Classification	l
9046-10-0			C; R34 Xn; R21/22 C; R34 R43	[2] [1] [1]
68683-29-4	3 - 7		R43	[1]
80-05-7	3 - 7		Repr. Cat. 3; R62	[1]
	number 14808-60-7 9046-10-0 2855-13-2 68683-29-4	number 14808-60-7 30 - 60 9046-10-0 7 - 13 2855-13-2 3 - 7 68683-29-4 3 - 7	number 14808-60-7 30 - 60 9046-10-0 7 - 13 2855-13-2 3 - 7 68683-29-4 3 - 7	number Not classified. 14808-60-7 30 - 60 Not classified. 9046-10-0 7 - 13 C; R34 2855-13-2 3 - 7 Xn; R21/22 C; R34 R43 68683-29-4 3 - 7 80-05-7 3 - 7

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3. COMPOSITION/INFORMATION ON INGREDIENTS

			Xi; R41, R37 R43
4-nonyl-phenol	25154-52-3	1 - 3	Repr. Cat. 3; [1] R62, R63 Xn; R22 C; R34 N; R50/53
silicon dioxide, chemically prepared diethylenetriamine	7631-86-9 111-40-0	1 - 3 1 - 3	Not classified. [2] Xn; R21/22 [1][2] C; R34 R43
Cellulose	9004-34-6	1 - 3	Not classified. [2]
See section 16 for the full text of the R-phrases declared above			

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

revision

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

First-aid measures		
Inhalation	: Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate may or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recover position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	ery
Ingestion	: Get medical attention immediately. Wash out mouth with water. Remove denture any. Move exposed person to fresh air. Keep person warm and at rest. If materia has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerou. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chem burns must be treated promptly by a physician. Never give anything by mouth to a unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	al f us. nical
Skin contact	: Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thorough with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse Clean shoes thoroughly before reuse.	f
Eye contact	: Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contac lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it suspected that fumes are still present, the rescuer should wear an appropriate ma or self-contained breathing apparatus. It may be dangerous to the person providin aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	isk ng
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4. FIRST AID MEASURES

Notes to physician

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media	
Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Special exposure hazards	: In a fire or if heated, a pressure increase will occur and the container may burst.
	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Nitrogen oxides, Burning produces obnoxious and toxic fumes., Carbon oxides
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods for cleaning up		
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. HANDLING AND STORAGE

Handling

: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Refer to special instructions/safety data sheet. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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7. HANDLING AND STORAGE

Storage	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
Storage temperature	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Storage temperature: 2 to 40°C (35.6 to 104°F).
Storage hazard class Huntsman Advanced Materials	: Storage class 8, Corrosive substances
Packaging materials	
Recommended	: Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name	Occupational exposure limits
quartz (SiO2)	EH40/2005 WELs (United Kingdom (UK), 8/2007).
	TWA: 0.1 mg/m ³ 8 hour(s). Form: respirable dust
silicon dioxide, chemically prepared	EH40/2005 WELs (United Kingdom (UK), 8/2007).
	TWA: 6 mg/m ³ 8 hour(s). Form: inhalable dust
	TWA: 2.4 mg/m ³ 8 hour(s). Form: respirable dust
diethylenetriamine	EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed
	through skin.
	TWA: 4.3 mg/m ³ 8 hour(s).
	TWA: 1 ppm 8 hour(s).
Cellulose	EH40/2005 WELs (United Kingdom (UK), 8/2007).
	STEL: 20 mg/m ³ 15 minute(s). Form: inhalable dust
	TWA: 10 mg/m ³ 8 hour(s). Form: inhalable dust
	TWA: 4 mg/m ³ 8 hour(s). Form: respirable dust

Workplace exposure limits (for total dust and inhalable quartz dust) must be complied with. If this is not possible, then suitable dust masks must be worn.

W A R N I N G ! This product contains quartz, which has been classified by IARC as carcinogenic for humans (Group 1), and which can cause silicosis and lung cancer following exposure to respirable dust. It is therefore important to take particular care to avoid inhalation exposure when mechanically processing cured material (e.g. grinding, sanding, sawing).

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
Exposure controls		
Occupational exposure controls	:	If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

urifying or air-fed respirator complying with an ent indicates this is necessary. Respirator sel icipated exposure levels, the hazards of the p selected respirator.	lection must
term application (BTT>480min):	
ime)	
e (EVAL)., butyl rubber	
t term/splash application (10min <btt<480mi< td=""><td>n):</td></btt<480mi<>	n):
elevant standards e.g. EN 374 (Europe), F739 a glove is dependent on usage, e.g. frequenc cal resistance of glove material and dexterity. rs. be found for instance at www.gisbau.de.	cy and
with an approved standard should be used w is necessary to avoid exposure to liquid splasl	
ment for the body should be selected based o isks involved and should be approved by a sp	
or work process equipment should be check rements of environmental protection legislatic ters or engineering modifications to the proces e emissions to acceptable levels.	on. In some
a glove is dependent on usage, e.g. frequence cal resistance of glove material and dexterity. rs. be found for instance at www.gisbau.de. with an approved standard should be used w is necessary to avoid exposure to liquid splast ment for the body should be selected based o risks involved and should be approved by a sp or work process equipment should be check rements of environmental protection legislation ters or engineering modifications to the process	cy and Always see when a risk hes, mists o in the task becialist befo ed to ensure on. In some

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance	
Physical state	: Liquid.
Colour	: Beige.
Odour	: Amine-like.
Important health, safety an	d environmental information
Flash point	: Closed cup: >100°C (>212°F)
Density	: 1.62 g/cm ³ [25°C (77°F)]
Water solubility	: Insoluble

10. STABILITY AND REACTIVITY

Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid release to the environment. Refer to special instructions/safety data sheet.
Materials to avoid	: strong acids, strong bases, strong oxidising agents
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Nitrogen oxides, Burning produces obnoxious and toxic fumes., Carbon oxides

11. TOXICOLOGICAL INFORMATION

Toxicokinetics	
Absorption	: Not available.
Distribution	: Not available.
Metabolism	: Not available.
Elimination	: Not available.

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11. TOXICOLOGICAL INFORMATION

Potential acute health effect					
Inhalation	: May give off gas, vapor or dust that is very irritating or corrosive to the respirato system.				ive to the respiratory
Ingestion	: May cause burns to mouth		throat and s	tomach.	
Skin contact	: Corrosive	to the skin. Caus	ses burns. N	lay cause sensitisatio	on by skin contact.
Eye contact	: Corrosive	to eyes. Causes	burns.		
Acute toxicity					
Product/ingredient name diethylenetriamine		Result LD50 Dermal LD50 Oral LD50 Oral	Species Rat Rat Rat	Dose >2000 mg/ >5000 mg/ >5000 mg/	′kg -
HARDENER HV 4854 CI		LD50 Oral	Rat	>2000 mg/	kg -
Conclusion/Summary	: Not availa	ble.			
Potential chronic health effe	<u>ects</u>				
Chronic toxicity					
Conclusion/Summary	: Not availa	ble.			
Irritation/Corrosion					
Conclusion/Summary	: Not availa	ble.			
Sensitiser Product/ingredient name		Route of	Species	Result	
diethylenetriamine		exposure skin skin	Guinea pig S		
HARDENER HV 4854 CI		skin	Guinea p		
Conclusion/Summary	: Not availa	ble.			
Carcinogenicity Conclusion/Summary	: Not availa	ble.			
Mutagenicity					
Conclusion/Summary	: Not availa	ble.			
Teratogenicity					
Conclusion/Summary	: Not availa	ble.			
Reproductive toxicity					
Conclusion/Summary	: Not availa	ble.			
Product name	Carcinogenic effects	Mutager	nic effects	Developmental effects	Fertility effects
4,4'-isopropylidenediphenol	_			_	Repr. Cat. 3; R62
4-nonyl-phenol	-	-		Repr. Cat. 3; R63	Repr. Cat. 3; R62
Chronic effects	Cat. 3, Kos Kept. A				
Carcinogenicity			s or critical h	azards.	
Mutagenicity	No known significant effects or critical hazards.No known significant effects or critical hazards.				
Teratogenicity		significant effect			
Developmental effects		significant effect			
Fertility effects		significant effect			
ver-exposure signs/sympto		C			
Inhalation	: No specifi	c data.			
Ingestion		ymptoms may inc	clude the foll	owing:	
Skin	pain or irr redness	ymptoms may ind tation may occur	clude the foll	owing:	
Date of issue/Date of	: 8/14/2009).			

11. TOXICOLOGICAL INFORMATION

Eyes

: Adverse symptoms may include the following: pain watering redness

12. ECOLOGICAL INFORMATION

Not available.
Not available.
No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
European waste catalogue (EWC)	 The relevant EU Directives and local, regional and national regulations must be complied with. It is among the tasks of the end user to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste catalogue. It is recommended that the details be agreed with the waste disposer responsible. 070204
	07 02 04* other organic solvents, washing liquids and mother liquors
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.

14. TRANSPORT INFORMATION

International transport regulations

Proper shipping name

ADR	:	Corrosive liquid, basic, organic, n.o.s. ISOPHORONE DIAMINE POLYOXYPROPYLENE DIAMINE
IMDG	:	Corrosive liquid, basic, organic, n.o.s. (ISOPHORONE DIAMINE) (POLYOXYPROPYLENE DIAMINE)
ΙΑΤΑ	:	Corrosive liquid, basic, organic, n.o.s. (POLYOXYPROPYLENE DIAMINE) (ISOPHORONE DIAMINE)

Regulatory information	UN number	Classes	Packing group	Label	Additional information
ADR/RID Class	UN3267	8	III	*	Classification codeC7Hazard identification80number
IMDG Class	UN3267	8	111		Emergency schedules (EmS) F-A, S-B
Date of issue/Dat revision	e of :	8/14/2009.			7/10

HARDENER HV 4854 CI 14. TRANSPORT INFORMATION					
					IATA Class

15. REGULATORY INFORMATION

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols	
C, N	Corrosive, Dangerous for the environment
Risk phrases	: R34- Causes burns. R43- May cause sensitisation by skin contact. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases	 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 and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S61- Avoid release to the environment. Refer to special instructions/safety data sheet.
Contains	 polyoxypropylene diamine isophorone diamine 2-propenenitrile polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1- piperazinyl)ethyl]amino]butyl-terminated 4,4'-isopropylidenediphenol diethylenetriamine
Additional warning phrases	: Not applicable.
International regulations	
International lists	 Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. Korea inventory (KECI): All components are listed or exempted. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined. United States inventory (TSCA 8b): All components are listed or exempted. Europe inventory: All components are listed or exempted. Canada inventory: All components are listed or exempted.

16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)	 R62- Possible risk of impaired fertility. R63- Possible risk of harm to the unborn child. R22- Harmful if swallowed. R21/22- Harmful in contact with skin and if swallowed. R34- Causes burns. R41- Risk of serious damage to eyes. R37- Irritating to respiratory system. R43- May cause sensitisation by skin contact. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in aquatic environment. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 	the
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16. OTHER INFORMATION

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)	: Repr. Cat. 3 - Toxic to reproduction Category 3 C - Corrosive Xn - Harmful
	Xi - Irritant
	N - Dangerous for the environment

References

Epoxy Resins and Curing Agents; Toxicology, Health, Safety and Environmental Aspects (Plastics Europe, May 2006) 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).

History

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Version	: 1

Indicates information that has changed from previously issued version.

Notice to reader

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IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

Enquiries should be addressed to your nearest Huntsman sales office or to:

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