# SAFETY DATA SHEET

HARDENER HV 997



# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Product name	: HARDENER HV 997
Product code	: 00053439
Product description	:
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Hardener for adhesive systems
1.3 Details of the supplier of	the safety data sheet
Supplier	: Huntsman Advanced Materials (Europe)BVBA Everslaan 45 3078 Everberg / Belgium Tel.: +41 61 299 20 41 Fax: +41 61 299 20 40
e-mail address of person responsible for this SDS	: Global_Product_EHS_AdMat@huntsman.com
1.4 Emergency telephone nu	mber
<u>Supplier</u>	
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

# **SECTION 2: Hazards identification**

2.1 Classification of the subs	stance or mixture
Product definition	: Mixture
Classification according to	Directive 1999/45/EC [DPD]
The product is classified as	dangerous according to Directive 1999/45/EC and its amendments.
Classification	: Xi; R36/38 R43
Human health hazards	: Irritating to eyes and skin. May cause sensitisation by skin contact.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements		
Hazard symbol or symbols	:	

Indication of danger Risk phrases

IrritantR36/38- Irritating to eyes and skin.

R43- May cause sensitisation by skin contact.

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SECTION 2: Hazards	identification			
Safety phrases		ith skin, wash immediately w le gloves and eye/face prote		
Hazardous ingredients	: diethylenetriamine 4,4'-isopropylidenedi triethylenetetramine	phenol		
Supplemental label elements	: Not applicable.			
Special packaging requiren	nents			
Containers to be fitted with child-resistant fastenings	: Not applicable.			
Tactile warning of danger	: Not applicable.			

Other hazards which do : Not available. not result in classification

# **SECTION 3: Composition/information on ingredients**

Substance/mixture	: Mixture				
			Class	sification	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
diethylenetriamine	CAS: 111-40-0 Index: 612-058-00-X	3 - 7	Xn; R21/22 C; R34 R43	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	[1] [2]
4,4'- isopropylidenediphenol	CAS: 80-05-7	3 - 7	Repr. Cat. 3; R62 Xi; R41, R37 R43 R52	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361fd STOT SE 3, H335	[1]
triethylenetetramine	CAS: 112-24-3	3 - 7	Xn; R21 C; R34 R43 R52/53	Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
			See section 16 for the full text of the R- phrases declared above	See Section 16 for the full text of the H statements 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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

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# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material 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 dangerous. 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. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an 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.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects Eye contact : Irritating to eyes. Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. **Skin contact** : Irritating to skin. May cause sensitisation by skin contact. Ingestion : Irritating to mouth, throat and stomach. **Over-exposure signs/symptoms** Eye contact : Adverse symptoms may include the following: irritation watering redness Inhalation : No specific data. **Skin contact** : Adverse symptoms may include the following: irritation redness Ingestion : No specific data. 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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#### **SECTION 4: First aid measures**

Specific treatments

: Symptomatic treatment and supportive therapy as indicated. Following severe exposure the patient should be kept under medical review for at least 48 hours.

#### SECTION 5: Firefighting measures 5.1 Extinguishing media : Use an extinguishing agent suitable for the surrounding fire. Suitable extinguishing media **Unsuitable extinguishing** : None known. media 5.2 Special hazards arising from the substance or mixture Hazards from the : In a fire or if heated, a pressure increase will occur and the container may burst. substance or mixture : Decomposition products may include the following materials: Hazardous thermal carbon dioxide decomposition products carbon monoxide nitrogen oxides metal oxide/oxides 5.3 Advice for firefighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if Special precautions for there is a fire. No action shall be taken involving any personal risk or without suitable fire-fighters training. : Fire-fighters should wear appropriate protective equipment and self-contained **Special protective** breathing apparatus (SCBA) with a full face-piece operated in positive pressure equipment for fire-fighters mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.
6.2 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).
6.3 Methods and materials for	r c	ontainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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#### SECTION 6: Accidental release measures

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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). 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 ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 2 to 40°C (35.6 to 104°F). 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. Separate from acids. 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 hazard class Huntsman Advanced Materials	: Storage class 12, Liquids, not dangerous
7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

## **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

**Occupational exposure limits** 

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SECTION 8: Exposu	re controls/p	personal protection			
Product/ingredi	ent name	Exposure	limit values		
diethylenetriamine		EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. TWA: 4.3 mg/m <sup>3</sup> 8 hour(s). TWA: 1 ppm 8 hour(s).			
Recommended monitoring procedures	atmosphere c of the ventilat protective equ methods for t	contains ingredients with exposure or biological monitoring may be requi ion or other control measures and/o uipment. Reference should be made the assessment of exposure by inhal ance documents for methods for the	ired to determine the effectiveness r the necessity to use respiratory e to European Standard EN 689 fo lation to chemical agents and		
Derived effect levels No DELs available.					
Predicted effect concentra	tions				
No PECs available.					
3.2 Exposure controls					
Appropriate engineering controls	control worke ingredients w	entilation requirements. Good generer er exposure to airborne contaminant with exposure limits, use process enco ering controls to keep worker expose ts.	s. If this product contains closures, local exhaust ventilation		
Individual protection meas	sures				
Hygiene measures	eating, smok Appropriate t Contaminate contaminated	, forearms and face thoroughly after ing and using the lavatory and at the echniques should be used to remov d work clothing should not be allowe d clothing before reusing. Ensure th close to the workstation location.	e end of the working period. re potentially contaminated clothin ed out of the workplace. Wash		
Eye/face protection		ear complying with an approved stan indicates this is necessary to avoid e			
Skin protection					
Hand protection		sistant, impervious gloves complying I times when handling chemical proc sary.			
Material of gloves for long term application (BTT>480min):	: Ethyl Vinyl Al	cohol Laminate (EVAL), butyl rubbe	r		
Material of gloves for short term/splash application (10min <btt<480min):< td=""><td>: nitrile rubber</td><td></td><td></td></btt<480min):<>	: nitrile rubber				
(BTT = Break Through Time)					
	Suitability and duration of co	pproved to relevant standards e.g. E d durability of a glove is dependent o ontact, chemical resistance of glove glove suppliers. Additional informatic de.	on usage, e.g. frequency and material and dexterity. Always see		

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SECTION 8: Exposi	ure controls/pers	sonal protection	
Body protection		and the risks involved and sho	uld be selected based on the task uld be approved by a specialist
Other skin protection	selected based or	ear and any additional skin pro n the task being performed and ecialist before handling this pro	d the risks involved and should be
Respiratory protection	must be based or		ry protection. Respirator selection re levels, the hazards of the product rator.
Environmental exposure controls	they comply with t cases, fume scrul		

# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical	la	nd chemical properties
Appearance		
Physical state	:	Liquid. [Paste.]
Colour	1	Beige.
Odour	:	Amine-like.
Odour threshold	:	Not available.
рН	÷	12
Melting point/freezing point	:	Not available.
Initial boiling point and boiling range	:	Not available.
Flash point	1	Open cup: 124°C
Evaporation rate	1	Not available.
Flammability (solid, gas)	1	Not available.
Burning time	1	Not applicable.
Burning rate	1	Not applicable.
Upper/lower flammability or explosive limits	1	Not available.
Vapour pressure	:	0.004 kPa [20°C]
Vapour density	:	Not available.
Relative density	:	Not available.
Solubility(ies)		
Water solubility	:	
		20 deg C
		practically insoluble
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	÷	Not available.
Decomposition temperature	:	>200°C
Viscosity	1	Not available.
Explosive properties	:	Not available.
Oxidising properties	÷	Not available.
9.2 Other information		
Density	÷	0.9 g/cm <sup>3</sup> [25°C (77°F)]

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SECTION 10: Stabili	ty and reactivity			
10.1 Reactivity	: No specific test data	related to reactivity available	for this product or its ingredien	its.
10.2 Chemical stability	: The product is stable			
10.3 Possibility of hazardous reactions	: Under normal condit	ions of storage and use, haz	ardous reactions will not occur.	
10.4 Conditions to avoid	: No specific data.			
10.5 Incompatible materials	: Reactive or incompa acids strong bases, strong	tible with the following mater oxidising agents	ials:	

10.6 Hazardous	: Under normal conditions of storage and use, hazardous decomposition products
decomposition products	should not be produced.

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Endpoint	Species	Result	Exposure
HARDENER HV 997	LD50 Oral	Rat	>5000 mg/kg	-
4,4'-isopropylidenediphenol	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
triethylenetetramine	LD50 Dermal	Rabbit - Male, Female	1465 mg/kg	-
	LD50 Oral	Rat - Male, Female	1716 mg/kg	-

### Irritation/Corrosion

**Conclusion/Summary** : Not available.

#### Sensitiser

Product/ingredient name	Test	Route of exposure	Species	Result
HARDENER HV 997 diethylenetriamine triethylenetetramine	- - OECD 406 Skin Sensitization	skin skin skin	Guinea pig Guinea pig Guinea pig	Sensitising Sensitising Sensitising

**Conclusion/Summary** : Not available.

#### **Mutagenicity**

	Result
	Negative Negative
	Positive Negative
D M	ECD 474 Mammalian Erythrocyte icronucleus Test

#### **Conclusion/Summary** : Not available.

Product/ir nar	-	Test	Species	Exposure	Result	Route of exposure	Target organs

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4,4'- isopropylidenediphenol		Rat	weeks; 7 days per	egative Oral ·		-	
			week				
Reproductive toxicity							
Product/ingredient name	e Test		Species	Result/Result type		Target organs	
4,4'-isopropylidenedipheno	-	F	lat	Oral: 5 mg/kg NOAEL		-	
Teratogenicity							
Product/ingredient name	e Test		Species	Result/	Result	type	
4,4'-isopropylidenedipheno	I -	F	at - Female	640 mg/kg NC	DAEL		
Information on the likely routes of exposure	: Not available.			<u> </u>			
Potential acute health effe	ects						
Inhalation	: Exposure to decom may be delayed foll		s may cause a	health hazard.	Seriou	s effects	
Ingestion	: Irritating to mouth, t	Irritating to mouth, throat and stomach.					
Skin contact	: Irritating to skin. Ma	ay cause sensitis	ation by skin c	ontact.			
Eye contact	: Irritating to eyes.						
Symptoms related to the		toxicological ch	aracteristics				
Inhalation	•	: No specific data.					
Ingestion Skin contact	•	<ul> <li>No specific data.</li> <li>Adverse symptoms may include the following:</li> </ul>					
Skin contact	irritation redness	may include the	ronowing.				
Eye contact	: Adverse symptoms irritation watering redness	may include the	following:				
Delayed and immediate ef	fects and also chronic e	effects from sho	rt and long te	<u>rm exposure</u>			
Short term exposure							
Potential immediate effects	: Not available.						
Potential delayed effect Long term exposure	ts : Not available.						
Potential immediate effects	: Not available.						
Potential delayed effect							
Potential chronic health e							
Product/ingredient name		Result	type	Result	Target	t organs	
4,4'-isopropylidenedipheno	-	NOAE	- Sub- chronic NOAEL Oral	75 mg/kg	-		
	-	NOEC	Dusts ar mists	J. J. J.	respira	atory trac	
triethylenetetramine	-	NOAEI	_ Sub-	50 mg/kg/d	-		

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SECTION 11: Toxic	ological informati	on				
		Oral				
Conclusion/Summary	: Not available.	· · · · · · · · · · · · · · · · · · ·				
General	: Once sensitized, a s to very low levels.	evere allergic reaction may o	occur when sub	sequently expose	ed	
Carcinogenicity	: No known significant	: No known significant effects or critical hazards.				
Mutagenicity	: No known significant	: No known significant effects or critical hazards.				
Teratogenicity	: No known significant	t effects or critical hazards.				

Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.Other information: Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Test	Endpo	oint	Exposure	Species	Result	
4,4'-isopropylidenediphenol	-	Acute	EC50	96 hours	Algae	2.5 to 3.1	mg/L
	-	Acute	EC50	48 hours	Daphnia	3.9 to 10.2	mg/L
	-	Acute	LC50	96 hours	Fish	7.5	mg/L

#### 12.2 Persistence and degradability

Product/ingredient name	Test		Period		Result
4,4'-isopropylidenediphenol	-		28 days		1 to 2 %
Product/ingredient name	Aquatic half-life	Photolysis		Biodeg	radability
4,4'-isopropylidenediphenol	-	-		Not rea	dily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
diethylenetriamine	-1.3	-	low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

#### 12.7 Other ecological information

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## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

#### Hazardous waste : Yes.

#### European waste catalogue (EWC)

Waste code	Waste designation		
07 02 04*	other organic solvents, washing liquids and mother liquors		
Packaging			
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.		
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.		

# **SECTION 14: Transport information**

#### 14.1 UN number 14.2 UN proper shipping name

ADR/RID Not regulated. -ADN/ADNRNot available. Not available. IMDG Not regulated. -IATA Not regulated. -

ΙΑΤΑ Not regulated. **ADR/RID ADN/ADNR** IMDG ΙΑΤΑ Not available. 14.3 Transport hazard class(es) 14.4 Packing group 14.5 No. No. No. Environmental hazards Not available. Not available. Not available. 14.6 Special precautions for user **Additional** Emergency \_ information schedules (EmS) Date of issue / Date of revision : 28 June 2011 11/14

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14.7 Transport in bulk: Not applicable.according to Annex II ofMARPOL 73/78 and the IBCCode

# **SECTION 15: Regulatory information**

0	-			
15.1 Safety, health and enviro EU Regulation (EC) No. 1907		/legislation specific	for the substance or r	mixture
Annex XIV - List of substar		risation		
Substances of very high of				
None of the components a				
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.			
Other EU regulations				
Europe inventory	: All components are	e listed or exempted.		
Black List Chemicals	: Not listed			
Priority List Chemicals	: Listed			
Integrated pollution prevention and control list (IPPC) - Air	: Not listed			
Integrated pollution prevention and control list (IPPC) - Water	: Not listed			
Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
4,4'-isopropylidenediphenol	-	-	-	Repr. Cat. 3; R62
National regulations				
References	recognised abbrev	iation for the Chemica	nes under Regulation 6 Is Hazard Information a lealth and Safety at Wo	and Packaging
International regulations				
Chemical Weapons Convention List Schedule I Chemicals	: Not listed			
Chemical Weapons Convention List Schedule II Chemicals	: Not listed			
Chemical Weapons Convention List Schedule III Chemicals	: Not listed			
15.2 Chemical Safety Assessment	: This product conta required.	ins substances for wh	ich Chemical Safety As	ssessments are still

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SECTION 16: Other	information		
Indicates information that	has changed from previo	usly issued version.	
Abbreviations and acronyms	1272/2008] DNEL = Derived No EUH statement = C	, Labelling and Packaging R Effect Level ₋P-specific Hazard statemen lo Effect Concentration	egulation [Regulation (EC) No. It
Classification according to	Regulation (EC) No. 127	2/2008 [CLP/GHS]	
Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361fd <mark>Procedure used to derive th</mark>	e classification accordi	ng to Regulation (EC) No.	1272/2008 [CLP/GHS]
Classi	fication		Justification
Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361fd		Expert judgment Expert judgment Expert judgment Expert judgment	
Full text of abbreviated H statements	H314 Causes se H315 Causes sk H317 May cause H318 Causes se H319 Causes se H335 May cause H361fd Suspected	contact with skin. vere skin burns and eye dan in irritation. an allergic skin reaction. rious eye damage. rious eye irritation.	cted of damaging the unborn child.
Full text of classifications [CLP/GHS]	: Acute Tox. 4, H302 Acute Tox. 4, H312 Aquatic Chronic 3, H Eye Dam. 1, H318 Eye Irrit. 2, H319 Repr. 2, H361fd Skin Corr. 1B, H314 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	SERIOUS EYE DAMA TOXIC TO REPRODU - Category 2 SKIN CORROSION/IF SKIN CORROSION/IF SKIN SENSITIZATION SPECIFIC TARGET C	KIN - Category 4 (CHRONIC) - Category 3 GE/ EYE IRRITATION - Category 1 GE/ EYE IRRITATION - Category 2 JCTION [Fertility and Unborn child] RRITATION - Category 1B RRITATION - Category 2
Full text of abbreviated R phrases	R34- Causes burns. R41- Risk of serious R37- Irritating to res R36/38- Irritating to R43- May cause ser R52- Harmful to aqu	f impaired fertility. tact with skin. contact with skin and if swall damage to eyes. piratory system. eyes and skin. hsitisation by skin contact. latic organisms.	

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SECTION 16: Other	information			
Full text of classifications [DSD/DPD]	: Repr. Cat. 3 - Toxic C - Corrosive Xn - Harmful Xi - Irritant	to reproduction category 3		
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Date of previous issue	: No previous validation	on.		
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