

# **SAFETY DATA SHEET**

SP350 HARDENER

# Section 1. Identification

GHS product identifier: SP350 HARDENERSDS code: 21350000DUS

#### Relevant identified uses of the substance or mixture and uses advised against

	Ider	tified uses	
Paint. Professional use Indus	trial use		
	Uses a	dvised against	
All other uses			
Product use	: Solvent borne coating for	or interior and exterior use.	
Supplier's details MAPAERO SAS 10, Avenue de la Rij 09103 PAMIERS Ce France			
Emergency telephone number (with hours of operation)	: +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30		
Section 2. Hazard	s identification		
OSHA/HCS status	: This material is conside (29 CFR 1910.1200).	ered hazardous by the OSHA Hazar	rd Communication Standard
Classification of the substance or mixture	: ACUTE TOXICITY (ora ACUTE TOXICITY (inh SKIN CORROSION - C SERIOUS EYE DAMAC SKIN SENSITIZATION	alation) - Category 4 ategory 1B GE - Category 1	
GHS label elements Hazard pictograms			
Signal word	: Danger		
Hazard statements	: Harmful if swallowed or Causes severe skin bu May cause an allergic s	rns and eye damage.	
Precautionary statements Prevention		, protective clothing and eye or face k or smoke when using this produc	
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# Section 2. Hazards identification

Response	: IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. 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 or doctor.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

# **Section 3. Composition/information on ingredients**

Substance/mixture

: Mixture

Ingredient name	%	CAS number
n-phenylenebis(methylamine)	≥50 - ≤75	1477-55-0
3-aminomethyl-3,5,5-trimethylcyclohexylamine	≥25 - ≤40	2855-13-2
benzyl alcohol	≥10 - ≤25	100-51-6
2-methylpentane-1,5-diamine	<5	15520-10-2
Amines, polyethylenepoly-, triethylenetetramine fraction	≤3	90640-67-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

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

# Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 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	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of 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. 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.

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# Section 4. First aid measures

: Set medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Chemical burns must be treated promptly by a physician.
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.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects		
Eye contact :	Causes serious eye damage.	
Inhalation :	Harmful if inhaled.	
Skin contact :	Causes severe burns. May cause an allergic skin reaction.	
Ingestion :	Harmful if swallowed.	
Over-exposure signs/symptor	<u>ns</u>	
Eye contact :	Adverse symptoms may include the following: pain watering redness	
Inhalation :	No specific data.	
Skin contact :	Adverse symptoms may include the following: pain or irritation redness blistering may occur	
Ingestion :	Adverse symptoms may include the following: stomach pains	
Indication of immediate medical attention and special treatment needed, if necessary		
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.	

Specific treatments	: No specific treatment.
Protoction of first-aidors	No action shall be taken involving any n

Protection of first-aiders
 No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media			
Suitable extinguishing media	: Use an extinguishing age	ent suitable for the surrounding fire.	
Unsuitable extinguishing media	: None known.		
Specific hazards arising from the chemical	: In a fire or if heated, a pr	essure increase will occur and the conta	ainer may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides		
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# Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: 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.
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.

### Section 6. Accidental release measures

Personal precautions, protec	tive 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 spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled 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).
Methods and materials for co	ntainment 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.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach 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

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 spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### 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 breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.
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.



# Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities	direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
	incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits		
n-phenylenebis(methylamine)	ACGIH TLV (United States, 1/2022).		
	Absorbed through skin.		
	C: 0.018 ppm		
	OSHA PEL 1989 (United States, 3/1989).		
	Absorbed through skin.		
	CEIL: $0.1 \text{ mg/m}^3$		
	NIOSH REL (United States, 10/2020).		
	Absorbed through skin.		
	CEIL: $0.1 \text{ mg/m}^3$		
3-aminomethyl-3,5,5-trimethylcyclohexylamine	None.		
benzyl alcohol	OARS WEEL (United States, 1/2021).		
	TWA: 10 ppm 8 hours.		
2-methylpentane-1,5-diamine	None.		
Amines, polyethylenepoly-, triethylenetetramine fraction	None.		

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measure	25
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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

# Section 8. Exposure controls/personal protection Body protection Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Other skin protection Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### <u>Appearance</u>

Physical state	: Liquid.
Color	: Colorless.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: <mark>M</mark> ot available. [DIN EN 1262]
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: 🖉losed cup: 105°C (221°F) [Pensky-Martens]
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.

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#### Vapor pressure

		Vapor Pressure at 20°C		۱ ۱	Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
2-methylpentane-1,5-diamine	0.2	0.027					
benzyl alcohol	0.05	0.0067					
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	0.01	0.0013	OECD 104				
m-phenylenebis(methylamine)	0.0052	0.00069	OECD 104				
Amines, polyethylenepoly-, triethylenetetramine fraction	0.0026	0.00035	OECD 104				
elative vapor density	: Not av	ailable.	-		1	•	
ensity	: <mark>1</mark> .04 g	/cm³ [DIN EN	I ISO 2811-1]				
olubility(ies)	:						
Modia	R	ocult					

Media	Result
cold water	Not soluble [OESO (TG 105)]

Partition coefficient: n- : Not applicable.

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#### octanol/water

#### Auto-ignition temperature

ngredient name	°C	°F	Method
enzyl alcohol	436	816.8	

#### **Decomposition temperature** : Not available.

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Section 9. Physic characteristics	cal and chemical properties and safety
Viscosity	: Kinematic (room temperature): 48 mm²/s (48 cSt) [DIN EN ISO 3219] Kinematic (40°C (104°F)): 20 mm²/s (20 cSt) [DIN EN ISO 3219]
Particle characteristics Median particle size	: Not applicable.
Section 10. Stabi	ility and reactivity
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
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	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-phenylenebis (methylamine)	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rabbit	2 g/kg	-
	LD50 Oral	Rat	930 mg/kg	-
benzyl alcohol	LD50 Dermal	Rabbit	2000 mg/kg	-
5	LD50 Intra-arterial	Rat	441 mg/kg	-
	LD50 Intraperitoneal	Mouse	650 mg/kg	-
	LD50 Intraperitoneal	Rat	400 mg/kg	-
	LD50 Intravenous	Mouse	324 mg/kg	-
	LD50 Intravenous	Rat	53 mg/kg	-
	LD50 Oral	Rat	1.5 mL/kg	-
	LD50 Oral	Rat	1660 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
2-methylpentane-1,5-diamine	LC50 Inhalation Vapor	Rat	2900 mg/m <sup>3</sup>	1 hours
	LD50 Oral	Rat	1690 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-phenylenebis (methylamine)	Eyes - Severe irritant	Rabbit	-	24 hours 50 ug	-
	Skin - Severe irritant	Rabbit	-	24 hours 750 ug	-
benzyl alcohol	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-
2-methylpentane-1,5-diamine	Eyes - Severe irritant Skin - Severe irritant	Rabbit Rabbit	-	0.1 MI 0.5 MI	-  -

#### Sensitization

Not available.

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# Section 11. Toxicological information

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

2-methylpentane-1,5-diamine Specific target organ toxici Not available.		Category 3	-	Despiratory treat
	ty (repeated exposure)			Respiratory tract irritation
Not available	<u>, , , , , , , , , , , , , , , , , , , </u>			
Not available.				
<u>Aspiration hazard</u> Not available.				
nformation on the likely outes of exposure	: Not available.			
otential acute health effects	<u>s</u>			
Eye contact	: Causes serious eye dama	ige.		
Inhalation	: Harmful if inhaled.			
Skin contact	: Causes severe burns. Ma	ay cause an allergi	c skin reaction.	
Ingestion	: Harmful if swallowed.			
ymptoms related to the phy	vsical, chemical and toxicolo	gical characteris	<u>tics</u>	
Eye contact	: Adverse symptoms may ir pain watering redness	nclude the following	g:	
Inhalation	: No specific data.			
Skin contact	: Adverse symptoms may ir pain or irritation redness blistering may occur	nclude the following	g:	
Ingestion	: Adverse symptoms may ir stomach pains	nclude the following	g:	
-	cts and also chronic effects	from short and lo	ng term exposure	1
Short term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			

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# Section 11. Toxicological information

#### Potential chronic health effects

#### Not available.

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

# Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	Acute EC50 17.4 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 10000 μg/l Fresh water Acute LC50 15000 μg/l Marine water Acute LC50 460000 μg/l Fresh water	Fish - Lepomis macrochirus Fish - Menidia beryllina Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours 96 hours 96 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
-phenylenebis(methylamine)	0.18	2.69	low
3-aminomethyl-	0.99	-	low
3,5,5-trimethylcyclohexylamine			
benzyl alcohol	0.87	-	low
Amines, polyethylenepoly-,	-2.65	-	low
triethylenetetramine fraction			

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

#### Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

Disposal methods	of this product, solutions requirements of environr regional local authority re via a licensed waste disp the sewer unless fully co Waste packaging should when recycling is not fea safe way. Care should b cleaned or rinsed out. E	should be avoided or minimized wherever and any by-products should at all times nental protection and waste disposal legi equirements. Dispose of surplus and nor losal contractor. Waste should not be di mpliant with the requirements of all author be recycled. Incineration or landfill should sible. This material and its container mu e taken when handling emptied container mpty containers or liners may retain som material and runoff and contact with soi	comply with the islation and any n-recyclable products sposed of untreated to orities with jurisdiction. uld only be considered ust be disposed of in a ers that have not been ne product residues.
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# **Section 14. Transport information**

The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

	DOT Classification	IMDG	IATA
UN number	UN3066	UN3066	UN3066
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	8 CORROR F	8	8
Packing group	П	11	11
Environmental hazards	No.	No.	No.
Additional information	bn		
IMDG       : Emergency schedules       F-A, S-B         IMDG Code Segregation group       Not applicable         Special precautions for user       : Transport within user's premises: always transport in closed containers that are			
upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.			
Transport in bulk acc to IMO instruments	ording : Not available.		
Section 15. Regulatory information			
U.S. Federal regulation	The second secon	ory All components are acti	ve or exempted.

<u>State regulations</u> Massachusetts	: The following components are listed: M-XYLENE-ALPHA,ALPHA'-DIAMINE; BENZYL
New York	: None of the components are listed.
New Jersey	: The following components are listed: m-XYLENE alpha, alpha'-DIAMINE; ISOPHORONEDIAMINE
Pennsylvania	: The following components are listed: 1,3-BENZENED, IMETHANAMINE; BENZENEMETHANOL
<u>California Prop. 65</u>	
<u>Inventory list</u> Canada	: At least one component is not listed.

# Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
CUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION - Category 1B	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method

#### **History**

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Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations</li> </ul>

#### ✓ Indicates information that has changed from previously issued version.

#### Notice to reader

#### FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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