

SAFETY DATA SHEET

FR2-55 SEMI-GLOSS TUK BLACK MATT AIC 11.1

Section 1. Identification

GHS product identifier SDS code

: FR2-55 SEMI-GLOSS TUK BLACK MATT AIC 11.1 : 55981101B

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

	f the substance or mixture ar	tified uses	
Paint. Professional use Ind			
		visod against	
All other uses	0585 du	vised against	
Product use	: Waterborne coating for i	nterior use.	
Supplier's details			
MAPAERO SAS 10, Avenue de la F 09103 PAMIERS (France			
Emergency telephone number (with hours of operation)	: +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30		
Section 2. Hazar	ds identification		
OSHA/HCS status	: This material is consider (29 CFR 1910.1200).	red hazardous by the OSHA Hazard Co	ommunication Standard
Classification of the substance or mixture	: FLAMMABLE LIQUIDS RESPIRATORY SENSIT SKIN SENSITIZATION -	FIZATION - Category 1	
GHS label elements			
Hazard pictograms		•	
Signal word	: Danger		
Hazard statements	: Flammable liquid and va May cause an allergic sk		s if inhaled.
Precautionary statement	<u>s</u>		
Prevention	hot surfaces. No smokin	Wear respiratory protection. Keep aw g. Use explosion-proof electrical, vent arking tools. Take action to prevent st	ilating or lighting
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Section 2. Hazards identification

Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: 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.
Storage	: Store in a well-ventilated place. Keep cool.
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
2-ethoxy-1-methylethyl acetate	≤10	54839-24-6
Polyisocyanate, aliphatic	≤3	-
Talc , not containing asbestiform fibres	≤3	14807-96-6
Chlorite-group minerals	≤3	1318-59-8
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	≤3	9038-95-3
4-isocyanatosulphonyltoluene	≤0.3	4083-64-1

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 as hazardous to health or the environment 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	: 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 if irritation occurs.
Inhalation	: 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. Get medical attention. If necessary, call a poison center or physician. 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 the event of any complaints or symptoms, avoid further exposure.
Skin contact	: 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. 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.

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Section 4. First aid measures

Most important symptoms/effects, acute and delayed

	<u>,</u>
Potential acute health effects	
Eye contact :	No known significant effects or critical hazards.
Inhalation :	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact :	May cause an allergic skin reaction.
Ingestion :	No known significant effects or critical hazards.
Over-exposure signs/symptom	<u>15</u>
Eye contact :	No specific data.
Inhalation :	Adverse symptoms may include the following: wheezing and breathing difficulties asthma
Skin contact :	Adverse symptoms may include the following: irritation redness
Ingestion :	No specific data.
Indication of immediate medica	l attention and special treatment needed, if necessary
Notes to physician :	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

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 dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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, protective 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing 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. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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 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	1				
Protective measures	:	Put on appropriate personal protective history of skin sensitization problems o respiratory disease should not be empl Do not get in eyes or on skin or clothing Use only with adequate ventilation. We inadequate. Do not enter storage area ventilated. Keep in the original contain compatible material, kept tightly closed sparks, open flame or any other ignition (ventilating, lighting and material handli Take precautionary measures against product residue and can be hazardous	r asthma, loyed in ar g. Do not ear approp is and con er or an a l when not n source. ing) equip electrosta	allergies or chronic or ny process in which this ingest. Avoid breathin oriate respirator when v fined spaces unless ac pproved alternative ma in use. Store and use Use explosion-proof e ment. Use only non-sp tic discharges. Empty	recurrent s product is used. g vapor or mist. ventilation is dequately ade from a a away from heat, lectrical parking tools.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be handled, stored and processed. Worke drinking and smoking. Remove contar entering eating areas. See also Section measures.	ers should ninated cl	l wash hands and face othing and protective e	before eating, quipment before
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulation Store in original container protected from area, away from incompatible materials all ignition sources. Separate from oxid and sealed until ready for use. Contain resealed and kept upright to prevent leas Use appropriate containment to avoid e incompatible materials before handling	om direct s s (see Sec dizing mat ners that h akage. D environme	sunlight in a dry, cool au ction 10) and food and cerials. Keep container ave been opened mus o not store in unlabeled	nd well-ventilated drink. Eliminate tightly closed t be carefully d containers.
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Section 7. Handling and storage

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits	
2-ethoxy-1-methylethyl acetate	None.	
Polyisocyanate, aliphatic	None.	
Talc , not containing asbestiform fibres	None.	
Chlorite-group minerals	None.	
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	None.	
4-isocyanatosulphonyltoluene	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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
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 measures

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: safety glasses with side-shields.
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.
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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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.
Respiratory protection	: 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

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Black.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: 59°C (138.2°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 1% Upper: 9.8% (2-ethoxy-1-methylethyl acetate)
Vapor pressure	: Not available.
Vapor density	: Highest known value: >1 (Air = 1) (Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether). Weighted average: 1.17 (Air = 1)
Density	: 1.179 g/cm³
Solubility(ies)	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not available.

Section 10. Stability 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	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
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
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	LC50 Inhalation Vapor	Guinea pig	293 mg/m ³	4 hours
	LC50 Inhalation Vapor	Mouse	174 mg/m³	4 hours
	LC50 Inhalation Vapor	Rat	4770 mg/m ³	4 hours
	LC50 Inhalation Vapor	Rat	4670 mg/m ³	4 hours
	LC50 Inhalation Vapor	Rat	147 mg/m ³	4 hours
	LC50 Inhalation Vapor	Rat	330 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>20 g/kg	-
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Section 11 Toxicological information

	LD50 Dermal	Rabbit	20 mL/kg	-
	LD50 Dermal	Rabbit	14100 uL/kg	-
	LD50 Intraperitoneal	Rat	2600 mg/kg	-
	LD50 Oral	Mouse	49 g/kg	-
	LD50 Oral	Mouse	7460 mg/kg	-
	LD50 Oral	Rabbit	16 g/kg	-
	LD50 Oral	Rabbit	1770 mg/kg	-
	LD50 Oral	Rat	5 g/kg	-
	LD50 Oral	Rat	45 g/kg	-
	LD50 Oral	Rat	4 mL/kg	-
	LD50 Oral	Rat	6130 mg/kg	-
	LD50 Oral	Rat	5370 mg/kg	-
	LD50 Oral	Rat	9610 mg/kg	-
	LD50 Oral	Rat	12300 uL/kg	-
	LD50 Oral	Rat	9170 uL/kg	-
	LD50 Oral	Rat	38400 uL/kg	-
	LD50 Oral	Rat	8530 uL/kg	-
	LD50 Oral	Rat	18300 uL/kg	-
	LD50 Oral	Rat	20600 uL/kg	-
l-isocyanatosulphonyltoluene	LD50 Intraperitoneal	Rat	775 mg/kg	-
	LD50 Oral	Rat	2234 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	Eyes - Severe irritant	Rabbit	-	50 mg	-
· · · · ·	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
4-isocyanatosulphonyltoluene	Eyes - Moderate irritant	Rabbit	-	100 UĬ	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 Ul	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Talc , not containing asbestiform fibres	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

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Section 11. Toxicological information

Name		Category	Route of exposure	Target organs
2-ethoxy-1-methylethyl acetate 4-isocyanatosulphonyltoluene		Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Specific target organ toxic Not available.	ity (repeated exposure	D D		
<u>Aspiration hazard</u> Not available.				
nformation on the likely outes of exposure	: Not available.			
Potential acute health effect	<u>ts</u>			
Eye contact	: No known significa	nt effects or critical hazar	ds.	
Inhalation	: May cause allergy	or asthma symptoms or b	oreathing difficulties	if inhaled.
Skin contact	: May cause an aller	•		
Ingestion	: No known significa	nt effects or critical hazar	ds.	
Symptoms related to the ph	ysical, chemical and to	oxicological characteris	<u>tics</u>	
Eye contact	: No specific data.			
Inhalation	: Adverse symptoms wheezing and brea asthma	s may include the following thing difficulties	g:	
Skin contact	: Adverse symptoms irritation redness	may include the following	g:	
Ingestion	: No specific data.			
Delayed and immediate effe	ects and also chronic e	ffects from short and lo	ng term exposure	<u>!</u>
Short term exposure Potential immediate	: Not available.			
effects Potential delayed effects	: Not available.			
Long term exposure Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health ef				
Not available.	10010			
General	: Once sensitized, a very low levels.	severe allergic reaction n	nay occur when sul	osequently exposed to
	• No known significa	nt effects or critical hazar	ds.	
Carcinogenicity	. NO KHOWH SIGHIICA			
Carcinogenicity Mutagenicity	-	nt effects or critical hazar		



Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-ethoxy-1-methylethyl acetate	0.76	-	low

Mobility in soil

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

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

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	111	111	111
Environmental hazards	No.	No.	No.

Additional information

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Section 14. Transport information

DOT Classification	:	This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials.
IMDG	:	Emergency schedules F-E, _S-E_
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 according to IMO instruments	:	Not available.

Section 15. Regulatory information

U.S. Federal regulations : United States inventory (TSCA 8b): Not determined.

State regulations	
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Massachusetts	: The following components are listed: CARBON BLACK; TALC; SOAPSTONE
New York	: None of the components are listed.
New Jersey	: The following components are listed: CARBON BLACK; SOAPSTONE
Pennsylvania	: The following components are listed: CARBON BLACK; TALC; SOAPSTONE DUST
California Prop. 65	

WARNING: Cancer - www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
zarbon black, respirable powder titanium dioxide	-	-
crystalline silica, respirable powder	-	-
3,3'-dichlorobenzidine	Yes.	-

Inventory list

Canada

: At least one component is not listed.

Section 16. Other information

Procedure used to derive the classification

	Classification		Justification
FLAMMABLE LIQUIDS - Ca RESPIRATORY SENSITIZA SKIN SENSITIZATION - Ca	TION - Category 1		On basis of test data Calculation method Calculation method
History			
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Section 16. Other information

Unique ID	:
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = 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

✓ 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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