

SAFETY DATA SHEET

XS420 HARDENER

Section 1. Identification

GHS product identifier: XS420 HARDENERSDS code: 1600000D

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

	Identified uses
Paint. Professional use	ndustrial use
	Uses advised against
All other uses	
Product use	: High solid coating for exterior use.
Supplier's details	
MAPAERO S/ 10, Avenue de 09103 PAMIE France	la Rijole CS30098
e-mail address	: PSRA_PAMIERS@akzonobel.com

Emergency telephone	: +33 (0)5 34 01 34 01
number	+33 (0)5 61 60 23 30

Section 2. Hazards identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
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GHS label elements

Hazard pictograms



Signal word	: Warning
Hazard statements	: H226 - Flammable liquid and vapor.
	H317 - May cause an allergic skin reaction.
	H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

Precautionary statements

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Section 2. Hazards identification

Prevention	: P280 - Wear protective gloves.
	P210 - Keep away from heat, sparks and hot surfaces. No smoking.
	P241 - Use explosion-proof electrical, ventilating or lighting equipment.
	P242 - Use non-sparking tools.
	P243 - Take action to prevent static discharges.
	P261 - Avoid breathing vapor.
Response	 P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P363 - Wash contaminated clothing before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water.
	P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
Storage	 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
Disposal	 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not : None known.

result in classification

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
Fexamethylene diisocyanate, oligomers	≥90	28182-81-2
n-butyl acetate	≤10	123-86-4

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 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 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. 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.
Most important sympt	coms/effects, acute and delayed
Potential acute healt	h effects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	<u>s/symptoms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following:
	respiratory tract irritation

	coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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.
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 nitrogen oxides

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. 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.

For emergency responders
 For emergency responders
 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 containment 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

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 vapor or mist. Use only with adequate ventilation. Wear
	appropriate respirator when ventilation is inadequate. Do not enter storage areas
	and confined spaces unless adequately ventilated. Keep in the original container or
	an approved alternative made from a compatible material, kept tightly closed when
	not in use. Store and use away from heat, sparks, open flame or any other ignition
	source. Use explosion-proof electrical (ventilating, lighting and material handling)
	equipment. Use only non-sparking tools. Take precautionary measures against
	electrostatic discharges. Empty containers retain product residue and can be
	hazardous. Do not reuse container.



Section 7. Handling and storage

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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.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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
<mark>p</mark> -butyl acetate	ACGIH TLV (United States, 1/2022). [Butyl acetates] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.

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 contains need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.			
Environmental exposure controls	:	they comply with the requir cases, fume scrubbers, filte	or work process equipment shou ements of environmental protecti ers or engineering modifications t ry to reduce emissions to accepta	on legislation. In some to the process	
Individual protection measure	ures				
Hygiene measures	:	eating, smoking and using Appropriate techniques sho Contaminated work clothing	I face thoroughly after handling cl the lavatory and at the end of the buld be used to remove potentially g should not be allowed out of the re reusing. Ensure that eyewash orkstation location.	working period. y contaminated clothing. e workplace. Wash	
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 indicate this is necessary. Considering the parameters specified by the glove manufacture 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.			
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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. 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

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	: Not available. [DIN EN 1262]
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: ℤlosed cup: 59°C (138.2°F) [Pensky-Martens]
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.

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Vapor pressure

	V	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
p≁butyl acetate	11.25	1.5	DIN EN 13016-2				
hexamethylene-di-isocyanate	0.01	0.0013					
Hexamethylene diisocyanate, oligomers	0.000018	0.0000024	EU A.4				
Relative vapor density	: Not ava	ilable.	•				
Density	: <mark>1</mark> .133 g	/cm³ [DIN EN	N ISO 2811-1]				
Solubility(ies)	:						
Media	Re	esult					
old water	No	ot soluble [OE	ESO (TG 105)]				
Partition coefficient: n-	: Not app	licable.					

Partition coefficient: n-

octanol/water

Viscosity

Auto-ignition temperature

Ir	ngredient name	°C	°F	Method		
p	butyl acetate	415	779	EU A.15		
h	examethylene-di-isocyanate	454	849.2			
Decomposition tomporature : Not available						

Decomposition temperature Not available.

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Kinematic (room temperature): 371 mm²/s (371 cSt) [DIN EN ISO 3219] 5 Kinematic (40°C (104°F)): 51 mm²/s (51 cSt) [DIN EN ISO 3219]

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Section 9. Physical and chemical properties

Particle characteristics

Median particle size : Not applicable.

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
	LC50 Inhalation Dusts and mists	Rat	18500 mg/m ³	1 hours
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	6 g/m ³	2 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
examethylene diisocyanate, oligomers	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
-	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.



Section 11. Toxicological information

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name			Category	Route of exposure	Target organs
Hexamethylene diisocyanate, oligomers		Category 3	-	Respiratory tract irritation	
n-butyl acetate	n-butyl acetate		Category 3	-	Narcotic effects
Specific target organ toxici	t <u>y (repeated e</u>	<u>xposure)</u>			
Not available.					
Aspiration hazard Not available.					
nformation on the likely outes of exposure	: Not availa	ble.			
Potential acute health effects	<u> </u>				
Eye contact	: No known	significant eff	ects or critical haz	zards.	
Inhalation	: Harmful if	inhaled. May	cause respiratory	rirritation.	
Skin contact	: May cause	e an allergic sl	kin reaction.		
Ingestion	: No known	significant eff	ects or critical haz	zards.	
Symptoms related to the phy	<u>sical, chemic</u>	al and toxico	logical characte	<u>ristics</u>	
Eye contact	: No specifi	c data.			
Inhalation		ymptoms may y tract irritation	r include the follow	<i>v</i> ing:	
Skin contact	: Adverse s irritation redness	ymptoms may	include the follow	/ing:	
Ingestion	: No specifi	c data.			
Delayed and immediate effect	ts and also c	hronic effects	s from short and	long term expos	ure
Short term exposure					
Potential immediate effects	: Not availa	ble.			
Potential delayed effects	: Not availa	ble.			
Long term exposure Potential immediate effects	: Not availa	ble.			
Potential delayed effects	: Not availa	ble.			
Potential chronic health eff	<u>ects</u>				
Not available.					
Not available. General	: Once sens to very low		re allergic reactio	n may occur when	subsequently expose
	to very low	v levels.	re allergic reaction ects or critical haz	-	subsequently expose
General	to very low : No known	v levels. significant eff	-	zards.	subsequently expose

Section 11. Toxicological information

Section 12. Ecological information

<u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours
	Acute LC50 100000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
An eligemere	5.54	367.7	low
oligomers n-butyl acetate	2.3	-	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 ge Dispose with th

: 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

	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
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XS420 HARDENER

Section 14. Transport information

Transport hazard class(es)	3	3	3
Packing group	Ш	III	III
Environmental hazards	No.	No.	No.

Additional information

UN	:	<u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1.
IMDG	:	Emergency schedules F-E, _S-E_ Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5. 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 according	:	Not available.

to IMO instruments

Section 15. Regulatory information

Safety, health and : Notification of Ministry of Industry: Hazard classification and Communication system for Hazardous Substances (B.E. 2555) (2012)

Hazardous Substance Act B.E. 2535 (1992)

<u>Type</u>

Ingredient name	CAS number	<u>Threshold</u>	<u>Type</u>	<u>Authority</u>	<u>Conditions</u>
Fexamethylene-di-isocyanate	822-06-0	-	-	Department of Industrial Works	-

Ministerial Regulation on the Prescribing of Standard for Administrator, Management and Performance of Occupational Safety, Health and Environmental in relation to Harmful Chemicals B.E. 2556 (2013)

Harmful Chemicals List : Listed

International regulations

<u>Chemical Weapon Convention List Schedules I, II & III Chemicals</u> Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

<u>History</u>	
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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

Procedure used to derive the classification

Classification	Justification
AMMABLE LIQUIDS - Category 3	On basis of test data
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
irritation) - Category 3	

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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