

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# SAFETY DATA SHEET

FRS-40 SEMI-GLOSS BASE ALESTA META SILVER B399

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

1.1	Product	identifier

Product name SDS code

: FRS-40 SEMI-GLOSS BASE ALESTA META SILVER B399 : 4092B399B

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

	Identified uses
Paint. Professional us	e Industrial use
	Uses advised against
All other uses	
Product use	: Solvent borne coating for interior use.

### 1.3 Details of the supplier of the safety data sheet

MAPAERO SAS 10, Avenue de la Rijole CS30098 09103 PAMIERS Cedex France e-mail address of person : PSRA PAMIERS@akzonobel.com

1 4 Emergency telephone number

responsible for this SDS

1.4 Linergency telephone	number				
National advisory body/Poison Center					
Telephone number	: +33 (0)1 40 05 48 48				
<u>Supplier</u>					
Telephone number	: +33 (0)5 34 01 34 01				
	+33 (0)5 61 60 23 30				

Hours of operation

## **SECTION 2: Hazards identification**

:

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 STOT RE 2, H373 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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## **SECTION 2: Hazards identification**

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

### 2.2 Label elements

Hazard pictograms	:				
Signal word	:	Warning	•		
Hazard statements	:	Flammable liquid and Causes skin irritation Causes serious eye i May cause drowsine Suspected of causing May cause damage i Harmful to aquatic lif	n. irritation. ss or dizziness. g cancer. to organs through		ted exposure.
Precautionary statements			_	-	
Prevention	:	and eye or face prote	ection. Keep awa ition sources. No	y from heat, hot surf smoking. Avoid rele	ease to the environment.
Response	:	wash it before reuse.	r doctor if you fee . IF ON SKIN: W for several minu	el unwell. Take off co ash with plenty of wa tes. Remove contact	ontaminated clothing and ater. IF IN EYES: Rinse lenses, if present and
Storage	:	Store in a well-ventila	ated place. Keep	container tightly clos	ed. Keep cool.
Disposal	:	Dispose of contents and international reg		accordance with all lo	ocal, regional, national
Hazardous ingredients	:	<b>p</b> -butyl acetate Reaction mass of eth 4-methylpentan-2-on		ylene	
Supplemental label elements	:	Contains 4-morpholin allergic reaction. Warning! Hazardous breathe spray or mis	respirable drople		
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.			
Special packaging requirem	nen	<u>its</u>			
Containers to be fitted with child-resistant fastenings	:	Not applicable.			
Tactile warning of danger	:	Not applicable.			
2.3 Other hazards					
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does no vPvB.	ot contain any sub	ostances that are ass	essed to be a PBT or a
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## **SECTION 2: Hazards identification**

Other hazards which do : None known. not result in classification

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

3.2 Mixtures : N	lixture		1	1
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
<mark>⊮-</mark> butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119488216-32	≥10 - ≤15	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
4-methylpentan-2-one	EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≤10	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	[1] [2]
aromatic hydrocarbons, C9	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≤1.5	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	REACH #: 01-2119463258-33 EC: 919-857-5	≤3	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	[1]
4-morpholinecarbaldehyde methyl methacrylate	CAS: 4394-85-8 REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	<1 ≤0.3	Skin Sens. 1, H317 Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	[1] [1] [2]
			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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

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

[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

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

### 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 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. : Flush contaminated skin with plenty of water. Remove contaminated clothing and Skin contact shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air Ingestion 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 necessary, call a poison center or 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. 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.

### 4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 4-morpholinecarbaldehyde, methyl methacrylate. May produce an allergic reaction.

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

Over-exposure signs/symptoms				
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness			
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness			
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	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media		
Suitable extinguishing media	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.	
Unsuitable extinguishing media	Do not use water jet.	
5.2 Special hazards arising	the substance or mixture	
Hazards from the substance or mixture	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, the risk of a subsequent explosion. This material is harmful to aquatic life with lo lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.	with ng
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incider 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.	nt if
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection t chemical incidents.	for



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

### 6.1 Personal precautions, protective equipment and emergency procedures

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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".			
6.2 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). Water polluting material. May be harmful to the environment if released in large quantities.			
6.3 Methods and materials for	or 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			

6.4 Reference to other sections
 i. See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

and place in container for disposal according to local regulations. Dispose of via a

## 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	<ul> <li>Put on appropriate personal protective equipment (see Section 8). Avoid obtain special instructions before use. Do not handle until all safety presented and understood. Do not get in eyes or on skin or cloth breathe vapor or mist. Do not ingest. Avoid release to the environment with adequate ventilation. Wear appropriate respirator when ventilation inadequate. Do not enter storage areas and confined spaces unless a ventilated. Keep in the original container or an approved alternative matcompatible material, kept tightly closed when not in use. Store and use heat, sparks, open flame or any other ignition source. Use explosion-p (ventilating, lighting and material handling) equipment. Use only non-stake precautionary measures against electrostatic discharges. Empty retain product residue and can be hazardous. Do not reuse container.</li> </ul>		
Advice on general occupational hygiene	handled, stored and pro eating, drinking and smo	oking should be prohibited in areas cessed. Workers should wash han oking. Remove contaminated clothi ng eating areas. See also Section a neasures.	ds and face before ng and protective
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### **SECTION 7: Handling and storage**

### 7.2 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.

### Seveso Directive - Reporting thresholds

### Danger criteria

Ca		Notification and MAPP threshold	Safety report threshold
P	5c	5000 tonne	50000 tonne

### 7.3 Specific end use(s)

Recommendations	: Not available
Industrial sector specific	: Not available

Industrial sector specific solutions

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredie	nt name	Exposure limit values
<b>p</b> -butyl acetate		Ministry of Labor (France, 3/2020). Notes: Indicative limit
		values (circular) STEL: 940 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation STEL: 200 ppm 15 minutes. Form: Risk for sensitisation TWA: 710 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation TWA: 150 ppm 8 hours. Form: Risk for sensitisation
Reaction mass of ethylbenze	ne and xylene	Ministry of Labor (France, 3/2020). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of
		the Labor Code)
		STEL: 442 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 221 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation TWA: 50 ppm 8 hours. Form: Risk for sensitisation
2-methoxy-1-methylethyl ace	tate	Ministry of Labor (France, 10/2016). Absorbed through skin.
		Notes: Labour Act , Art 4412-149 (Regulatory binding
		exposure limits)
		STEL: 550 mg/m <sup>3</sup> 15 minutes.
		STEL: 100 ppm 15 minutes.
		TWA: 275 mg/m <sup>3</sup> 8 hours.
		TWA: 50 ppm 8 hours.
4-methylpentan-2-one		Ministry of Labor (France, 3/2020). Notes: Binding regulatory
		limit values (article R. 4412-149 of the Labor Code)
		STEL: 208 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation STEL: 50 ppm 15 minutes. Form: Risk for sensitisation
		TWA: 83 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation
		TWA: 20 ppm 8 hours. Form: Risk for sensitisation
methyl methacrylate		Ministry of Labor (France, 3/2020). Notes: Binding regulatory
, , ,		limit values (article R. 4412-149 of the Labor Code)
		STEL: 410 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation
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## **SECTION 8: Exposure controls/personal protection**

required.

	STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 205 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation TWA: 50 ppm 8 hours. Form: Risk for sensitisation			
procedures and or p p th th lin and or (\ for	this product contains ingredients with exposure limits, personal, workplace mosphere or biological monitoring may be required to determine the effectiveness the ventilation or other control measures and/or the necessity to use respiratory otective equipment. Reference should be made to monitoring standards, such as e following: European Standard EN 689 (Workplace atmospheres - Guidance for e assessment of exposure by inhalation to chemical agents for comparison with nit values and measurement strategy) European Standard EN 14042 (Workplace mospheres - Guide for the application and use of procedures for the assessment exposure to chemical and biological agents) European Standard EN 482 /orkplace atmospheres - General requirements for the performance of procedures r the measurement of chemical agents) Reference to national guidance bouments for methods for the determination of hazardous substances will also be			

### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
p-butyl acetate	DNEL	Long term Oral	3.4 mg/kg	General	Systemic
-			bw/day	population	-
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
		5	bw/day	population	,
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
			bw/day		-,
	DNEL	Long term	12 mg/m <sup>3</sup>	General	Systemic
	0.122	Inhalation	12 mg/m	population	eyetenne
	DNEL	Long term	48 mg/m <sup>3</sup>	Workers	Systemic
	0.122	Inhalation	io ing/iii		eyetenne
	DNEL	Long term	102.34 mg/	General	Local
	DINCL	Inhalation	m <sup>3</sup>	population	Local
	DNEL	Long term	480 mg/m <sup>3</sup>	Workers	Local
		Inhalation	400 mg/m	WOIKEI3	LOCAI
	DNEL	Short term	859.7 mg/	General	Local
	DINLL	Inhalation	m <sup>3</sup>	population	LUCAI
					Sustamia
	DNEL	Short term	859.7 mg/	General	Systemic
		Inhalation	$m^3$	population	Land
	DNEL	Short term	960 mg/m <sup>3</sup>	Workers	Local
		Inhalation	000 / 3		
	DNEL	Short term	960 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation		<b>A</b>	
Reaction mass of ethylbenzene and	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
xylene			bw/day	population	
	DNEL	Long term	14.8 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	108 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term	289 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	289 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	_		
4-methylpentan-2-one	DNEL	Long term Oral	4.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	4.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	11.8 mg/	Workers	Systemic
			kg bw/day		.,
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	DNEL	Long term	14.7 mg/m <sup>3</sup>	General	Local	
		Inhalation	Ũ	population		
	DNEL	Long term	14.7 mg/m <sup>3</sup>		Systemic	
		Inhalation	Ũ	population	,	
	DNEL	Long term	83 mg/m³	Workers	Local	
		Inhalation	Ũ			
	DNEL	Long term	83 mg/m <sup>3</sup>	Workers	Systemic	
		Inhalation	_		-	
	DNEL	Short term	155.2 mg/	General	Local	
		Inhalation	m³	population		
	DNEL	Short term	155.2 mg/	General	Systemic	
		Inhalation	m³	population		
	DNEL	Short term	208 mg/m <sup>3</sup>	Workers	Local	
		Inhalation				
	DNEL	Short term	208 mg/m <sup>3</sup>	Workers	Systemic	
		Inhalation		_		
4-morpholinecarbaldehyde	DNEL	Long term Oral	8 mg/kg	General	Systemic	
			bw/day	population		
	DNEL	Long term Dermal	8 mg/kg	General	Systemic	
			bw/day	population		
	DNEL	Long term Dermal	14 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term	29 mg/m <sup>3</sup>	General	Systemic	
		Inhalation		population		
	DNEL	Long term	98 mg/m³	Workers	Systemic	
		Inhalation		_		
methyl methacrylate	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic	
			bw/day	population		
	DNEL	Long term Dermal	13.67 mg/	Workers	Systemic	
			kg bw/day	•		
	DNEL	Long term	74.3 mg/m <sup>3</sup>		Systemic	
	<b></b>	Inhalation	101 1 2	population		
	DNEL	Long term	104 mg/m <sup>3</sup>	General	Local	
		Inhalation	000	population		
	DNEL	Long term Inhalation	208 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term	208 mg/m <sup>3</sup>	Workers	Systemic	
		Inhalation	200 mg/m		Cystonio	

### **PNECs**

No PNECs available.

### 8.2 Exposure controls

Appropriate engineering controls	ventilation or other eng contaminants below ar controls also need to k	e ventilation. Use process enclosure ineering controls to keep worker ex ny recommended or statutory limits. eep gas, vapor or dust concentratio explosion-proof ventilation equipmer	posure to airborne The engineering ns below any lower
Individual protection measu	res		
Hygiene measures	before eating, smoking Appropriate techniques Wash contaminated cl	and face thoroughly after handling and using the lavatory and at the e s should be used to remove potentia othing before reusing. Ensure that e se to the workstation location.	nd of the working period. ally contaminated clothing.
Eye/face protection	assessment indicates f gases or dusts. If cont	ying with an approved standard shou this is necessary to avoid exposure act is possible, the following protect t indicates a higher degree of protect	to liquid splashes, mists, tion should be worn,
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## **SECTION 8: Exposure controls/personal protection**

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.
	When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness $\geq$ 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness $\geq$ 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove material.
	The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	<ul> <li>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.</li> </ul>
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.
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.

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

### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>			
Physical state	: Liquid.		
Color	: Silver.		
Odor	: Characteristic.		
Odor threshold	: Not available.		
рН	: Not available.		
Melting point/freezing point	: Not available.		
Initial boiling point and boiling range	: Not available.		
Flash point	: Closed cup: 28°C		
Evaporation rate	: Not available.		
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## **SECTION 9: Physical and chemical properties**

Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 3.96 (Air = 1)
Density	:	1.007 g/cm <sup>3</sup>
Solubility(ies)	:	Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (room temperature): 9.93 cm²/s Kinematic (40°C): 1.01 cm²/s

SECTION 10: Stability and reactivity					
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.				
10.2 Chemical stability	: The product is stable.				
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.				
10.4 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.				
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials				
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.				

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>p</b> -butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
-	LC50 Inhalation Vapor	Mouse	6 g/m <sup>3</sup>	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	-
Reaction mass of	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
ethylbenzene and xylene				
4-methylpentan-2-one	LD50 Intraperitoneal	Guinea pig	800 mg/kg	-
	LD50 Intraperitoneal	Mouse	268 mg/kg	-
	LD50 Intraperitoneal	Rat	400 mg/kg	-
	LD50 Oral	Guinea pig	1600 mg/kg	-
	LD50 Oral	Mouse	1900 mg/kg	-
	LD50 Oral	Mouse	2850 mg/kg	-
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## **SECTION 11: Toxicological information**

	LD50 Oral	Rat	2080 mg/kg	-
	LD50 Oral	Rat	4600 mg/kg	-
4-morpholinecarbaldehyde	LD50 Oral	Rat	6500 uL/kg	-
methyl methacrylate	LC50 Inhalation Vapor	Mouse	18500 mg/m <sup>3</sup>	2 hours
	LC50 Inhalation Vapor	Rat	78000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Intraperitoneal	Guinea pig	1890 mg/kg	-
	LD50 Intraperitoneal	Mouse	945 mg/kg	-
	LD50 Intraperitoneal	Rat	1328 mg/kg	-
	LD50 Oral	Guinea pig	5954 mg/kg	-
	LD50 Oral	Mouse	3625 mg/kg	-
	LD50 Oral	Rabbit	8700 mg/kg	-
	LD50 Oral	Rat	7872 mg/kg	-
	LD50 Subcutaneous	Guinea pig	5954 mg/kg	-
	LD50 Subcutaneous	Mouse	5954 mg/kg	-
	LD50 Subcutaneous	Rat	7088 mg/kg	-

**Conclusion/Summary** 

: Not available.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
🗖-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
-	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Reaction mass of	Eyes - Mild irritant	Rabbit	-	87 mg	-
ethylbenzene and xylene	Eyes - Severe irritant	Rabbit	_	24 hours 5	_
		T CODIC		mg	
	Skin - Mild irritant	Rat	-	8 hours 60 UI	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	100 %	-
4-methylpentan-2-one	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				UI	
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
4-morpholinecarbaldehyde	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Conclusion/Summary	<ul> <li>Not available</li> </ul>				

<b>Conclusion/Summary</b>	:	Not available.
Sensitization		
Conclusion/Summary	:	Not available.
<u>Mutagenicity</u>		
Conclusion/Summary	:	Not available.
<b>Carcinogenicity</b>		
Conclusion/Summary	:	Not available.
Reproductive toxicity		
Conclusion/Summary	:	Not available.
<b>Teratogenicity</b>		
Conclusion/Summary	:	Not available.
Specific target organ toxici	ty (	<u>single exposure)</u>



## **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
p-butyl acetate	Category 3	-	Narcotic effects
Reaction mass of ethylbenzene and xylene	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
4-methylpentan-2-one	Category 3	-	Narcotic effects
aromatic hydrocarbons, C9	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Category 3	-	Narcotic effects
methyl methacrylate	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene	Category 2	-	-

### Aspiration hazard

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene aromatic hydrocarbons, C9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

## Information on the likely : Not available.

### routes of exposure

### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

### <u>Delayed and immediate effects and also chronic effects from short and long term exposure</u> <u>Short term exposure</u>

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## **SECTION 11: Toxicological information**

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
<b>Conclusion/Summary</b>	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

### Other information

: Not available.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
-butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 100000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours
Reaction mass of	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene and xylene			
4-methylpentan-2-one	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 540000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 537000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas -	33 days
		Embryo	-
methyl methacrylate	Acute LC50 191000 µg/l Fresh water	Fish - Lepomis macrochirus -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 159100 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 160200 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 150000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
		Adult	
	Acute LC50 130000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
		Adult	

**Conclusion/Summary** 

: Not available.

### 12.2 Persistence and degradability

Conclusion/Summary	: Not available.		
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## **SECTION 12: Ecological information**

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>p</b> -butyl acetate	2.3	-	low
Reaction mass of ethylbenzene and xylene	3.12	8.1 to 25.9	low
2-methoxy-1-methylethyl acetate	1.2	-	low
4-methylpentan-2-one	1.9	-	low
4-morpholinecarbaldehyde methyl methacrylate	- 1.38	<1.9 -	low low

### 12.4 Mobility in soil

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

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

## **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

<u>Product</u>		
Methods of disposal	:	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.
Hazardous waste	:	The classification of the product may meet the criteria for a hazardous waste.
Disposal considerations	:	Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
EWC 08 01 11* waste paint and varnish containing organic solvents or other hazardous subst	
Packaging Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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### **SECTION 13: Disposal considerations**

Disposal considerations	<ul> <li>Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.</li> </ul>
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. 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**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	Ш	111	Ш
14.5 Environmental hazards	No.	No.	No.

Additional information

ADR/RID	:	<u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1. <u>Tunnel code</u> (D/E)
IMDG	:	<b>Emergency schedules</b> F-E, _S-E_ <b>Viscous liquid exception</b> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
14.6 Special precautions for user	:	<b>Transport within user's premises:</b> 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.
14.7 Transport in bulk according to IMO instruments	:	Not applicable.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

### Substances of very high concern



## **SECTION 15: Regulatory information**

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### **Other EU regulations**

voc

Mixture

: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

#### VOC for Ready-for-Use : Not applicable.

Industrial emissions	:	Listed
(integrated pollution		
prevention and control) -		
Air		
Industrial emissions	:	Not listed
(integrated pollution		
prevention and control) -		
Water		
• • • • • • • • • • • • • • • • • • •		40051000015

### Ozone depleting substances (1005/2009/EU)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### **Seveso Directive**

This product is controlled under the Seveso Directive.

### **Danger criteria**

Category				
P5c				
National regulations				
Industrial use		lace risks, as required by o of the national health and s		
Social Security Code, Articles L 461-1 to L 461-7	: n-butyl acetate Reaction mass of ethylber 4-methylpentan-2-one methyl methacrylate	izene and xylene	RG 84 RG 4bis, RG 84 RG 84 RG 82	
Reinforced medical surveillance	<ul> <li>Decree n ° 2012-135 of January 30, 2012 relating to the organization of occupational medicine: not applicable</li> </ul>			
International regulations				
Chemical Weapon Conventi	<u>on List Schedules I, II &amp; III C</u>	hemicals		
Not listed.				
Montreal Protocol Not listed.				
Stockholm Convention on F	Persistent Organic Pollutant	<u> </u>		
Not listed.	-			
Rotterdam Convention on P Not listed.	rior Informed Consent (PIC)			
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SECTION 15: Regulatory information		
UNECE Aarhus Protocol	l on POPs and Heavy Metals	
Not listed.		
Inventory list		
Europe	: Not determined.	
15.2 Chemical Safety Assessment	: No Chemical Safety Assessment has been carried out.	
SECTION 16: Other information		
Indicates information th	at has changed from previously issued version.	
Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]	

EUH statement = CLP-specific Hazard statement

vPvB = Very Persistent and Very Bioaccumulative

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

N/A = Not available

Classification

SGG = Segregation Group

Full text o	f classifications	[CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315

Eye Irrit. 2, H319

STOT SE 3, H336

STOT RE 2, H373

Aquatic Chronic 3, H412

Full text of abbreviated H statements

Carc. 2, H351

H225

H226

H304

H312

H315

H317

H319

H332

H335

H336

H351 H373

H411

H412

EUH066



Justification

On basis of test data

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

May cause damage to organs through prolonged or repeated

Repeated exposure may cause skin dryness or cracking.

Highly flammable liquid and vapor.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

Harmful to aquatic life with long lasting effects.

May be fatal if swallowed and enters airways.

Flammable liquid and vapor.

Harmful in contact with skin. Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Suspected of causing cancer.

Harmful if inhaled.

exposure.

SECTION 16: Other information				
Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3		ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3		
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revision				
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Version	: 1.01			
Unique ID	:			

### 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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