

Safety Data Sheet according to Regulation (EC) No. 453/2010 Date of issue: 17-3-2015 Revision date: 10-12-2015 Supersedes: 26-11-2015 Version: 6.0

1.1. Product ide		ance/mixture and of the	company/undertaking		
Product form		: Mixture			
Product name		: Eurol Antifreeze GLX			
Product code		: E503152			
Product group		: Trade product			
1.2. Relevant ide	entified uses of the substan	ice or mixture and uses ad	vised against		
1.2.1. Relevant ide	ntified uses				
Intended for genera	l public				
Main use category		: industrial use,professional us	se,consumer use		
Function or use cat	egory	: Anti-freezing agents			
1.2.2. Uses advise	d against				
No additional inforn	nation available				
	e supplier of the safety dat	a sheet			
Eurol bv. Energiestraat 12					
P.O. Box P.O. Box	135				
7442 DA Nijverdal - T +31 548 615165	The Netherlands				
reach@eurol.com -	www.eurol.com				
1.4. Emergency	telephone number				
Emergency number		+31 79 3467 808			
	1	EVOFENEDEX			
Country	Organisation/Company	Address	Emergency number	Comment	
Ireland	National Poisons Information	Beaumont Hospital Beaumont	: +353 1 8379964		
	Centre Beaumont Hospital	Road 9 Dublin			
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Ireland	National Poisons Information Centre	PO Box 1297 Beaumont Road	+353 1 809 2566 (Healthcare professionals-24/7)		
	Beaumont Hospital	9 Dublin	+353 1 809 2166 (public, 8am		
		9 Dublin			
Malta	Beaumont Hospital Medicines & Poisons Info	Mater Dei Hospital	+353 1 809 2166 (public, 8am		
	Beaumont Hospital	Mater Dei Hospital MSD Msida	+353 1 809 2166 (public, 8am - 10pm, 7/7)		
Malta United Kingdom	Beaumont Hospital Medicines & Poisons Info Office National Poisons Information	Mater Dei Hospital MSD Msida Dudley Road	+353 1 809 2166 (public, 8am - 10pm, 7/7)		
	Beaumont Hospital Medicines & Poisons Info Office National Poisons Information Service (Birmingham Centre)	Mater Dei Hospital MSD Msida	+353 1 809 2166 (public, 8am - 10pm, 7/7) +356 2545 6504		
United Kingdom	Beaumont Hospital Medicines & Poisons Info Office National Poisons Information Service (Birmingham Centre) City Hospital	Mater Dei Hospital MSD Msida Dudley Road B18 7QH Birmingham	+353 1 809 2166 (public, 8am - 10pm, 7/7) +356 2545 6504 0344 892 0111		
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2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Acule toxicity (oral), Category 4 H302 Serious eye damage/eye irritation, Category 2 H319 Specific target organ toxicity — Repeated exposure, Category 2 H373 Full text of H statements : see section 16 Adverse physicochemical, human health and environmental effects No additional information available 2.2. Label elements 2.1. Label elements Execution (CC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : Hazard statements (CLP) : Precautionary statements (CLP) : Precautionary statements (CLP) : P266 - D on tor breather mist, spray, vapours. P264 - Wash hands thoroughy after handling. P301+P312 - IF SWALLOWED: Call a doctori fyou feel unwell. <td< th=""><th>SECTION 2: Hazards identificati</th><th>on</th><th></th></td<>	SECTION 2: Hazards identificati	on	
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SECTION 3: Composition/information on ingredients 3.1. Substances Not applicable

3.2. Mixtures

5.2. MIXUUES				
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
ethane-1,2-diol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119456816-28	>= 50	Acute Tox. 4 (Oral), H302 STOT RE 2, H373	
Potassium 2-Ethylhexanoate	(CAS-No.) 3164-85-0 (EC-No.) 221-625-7	1 - 3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361d	

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Seek medical attention if ill effect develops.
First-aid measures after inhalation	: Take victim to fresh air, in a quiet place, in an half laying position and if necessary take medical advice. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect or irritation develops.

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First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Ensure adequate flushing of eyes by separating eyelids with the fingers. Obtain medical attention if pain, blinking, tears or redness persist.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Drink plenty of water. If vomiting occurs spontaneously, keep head below the hips to prevent aspiration.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation	: At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.
Symptoms/effects after skin contact	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
Symptoms/effects after ingestion	: Bad taste. Damage to kidneys. The main component of this product is harmful by ingestion. Swallowing a small quantity of this material will result in serious health hazard.
Symptoms/effects upon intravenous administration	: Unknown.
4.2 Indication of any immediate medical att	antion and special treatment peeded

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water fog. Carbon dioxide (CO2), dry chemical powder, foam.
Unsuitable extinguishing media	: Do not use a heavy water stream. Use of heavy stream of water may spread fire.
5.2. Special hazards arising from the substa	nce or mixture
Fire hazard	: Combustion generates: CO, CO2.
Explosion hazard	: Not expected to be a fire/explosion hazard under normal conditions of use.
5.3. Advice for firefighters	
Precautionary measures fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing.
Other information	: Prevent fire fighting water from entering the environment. Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations.

SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
General measures	: Spill area may be slippery. Prevent soil and water pollution. Prevent entry to sewers and public waters.			
6.1.1. For non-emergency personnel				
Protective equipment	: Use protective clothing.			
Emergency procedures	: Consider evacuation.			
6.1.2. For emergency responders				
Protective equipment	: Equip cleanup crew with proper protection.			
Emergency procedures	: No specific measures are necessary.			
6.2. Environmental precautions				

6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. Notify authorities if product enters sewers or public waters. Prevent soil and water pollution. Prevent liquid from entering sewers, watercourses, underground or low areas. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.3. Methods and material for containment and cleaning up				
For containment	: Large quantities: Contain large spillage with sand or earth.			
Methods for cleaning up	 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Take up large spills with pump or vacuum and finish with dry chemical absorbent. 			
Other information	: Use suitable disposal containers. Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations. On water, recover/skim from surface and pour out in disposal container.			
6.4 Potoronco to other coctions				

6.4. Reference to other sections For further information refer to section 13.

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according to Regulation (EC) No. 455/2010	
SECTION 7: Handling and storag	e
7.1. Precautions for safe handling	
Additional hazards when processed	: Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.
Precautions for safe handling	: Avoid prolonged and repeated contact with skin. May be dangerously slippery if spilled. Where contact with eyes or skin is likely, wear suitable protection. Do not eat, drink or smoke during use. Remove contaminated clothing and shoes.
Hygiene measures	: Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Where contact with eyes or skin is likely, wear suitable protection. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Technical measures	: Keep container tightly closed and in well ventilated place.
Storage conditions	: Store in original container.
Incompatible products	: Reacts vigorously with strong oxidizers and acids.
Maximum storage period	: 5 year
Storage temperature	: ≤ 40 °C
Information on mixed storage	: Keep away from : oxidizing materials. strong acids.
Storage area	: Store at ambient temperature.
Special rules on packaging	: Keep container tightly closed and dry.
7.3. Specific end use(s)	

7.3. Specific end use(s) No additional information available

SECTION 8: Exposure controls/personal	protection			
8.1. Control parameters				
ethane-1,2-diol (107-21-1)				
EU - Occupational Exposure Limits				
Local name	Ethylene glycol			
IOELV TWA (mg/m³)	52 mg/m³			
IOELV TWA (ppm)	20 ppm			
IOELV STEL (mg/m ³)	104 mg/m³			
IOELV STEL (ppm)	40 ppm			
Notes	Skin			
Ireland - Occupational Exposure Limits				
OEL (8 hours ref) (mg/m ³)	52 mg/m³			
OEL (8 hours ref) (ppm)	20 ppm			
OEL (15 min ref) (mg/m3)	104 mg/m³			
OEL (15 min ref) (ppm)	40 ppm			
Malta - Occupational Exposure Limits				
Local name	Ethyleneglycol			
OEL TWA (mg/m³)	52 mg/m³			
OEL TWA (ppm)	20 ppm			
OEL STEL (mg/m³)	104 mg/m³			
OEL STEL (ppm) 40 ppm				
United Kingdom - Occupational Exposure Limits				
Local name	Ethane-1,2-diol			
WEL TWA (mg/m³)	10 mg/m³			
WEL TWA (ppm)	20 ppm			
WEL STEL (mg/m³)	30 mg/m³ (calculated)			

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WEL STEL (ppm)	40 ppm
	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)

8.2. Exposure controls

Appropriate engineering controls:

Large quantities: Contain large spillage with sand or earth.

Personal protective equipment:

Gloves. In case of splash hazard: safety glasses. Eye protection should only be necessary where liquid could be splashed or sprayed.

Materials for protective clothing:

Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves

Hand protection:

In case of repeated or prolonged contact wear gloves. The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream). The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.4		EN ISO 374
Disposable gloves	Butyl rubber	6 (> 480 minutes)	0.7		EN ISO 374

Eye protection:

Eye protection should only be necessary where liquid could be splashed or sprayed

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use. Avoid repeated or prolonged skin contact. If repeated skin contact or contamination of clothing is likely, protective clothing should be worn. Equipment should conform to EN 166.

Respiratory protection:

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. Respiratory protective equipment must be checked to ensure it fits correctly each time it is worn. Provided an air-filtering/air-purifying respirator is suitable, a filter for particulates can be used for mist or fume. Use filter type P or comparable standard. A combination filter for particles and organic gases and vapours (boiling point >65°C) may be required if vapour or abnormal odour is also present due to high product temperature. Use filter type AP or comparable standard.

Personal protective equipment symbol(s):



Environmental exposure controls:

See Heading 12. See Heading 6.

Consumer exposure controls:

Neoprene or nitrile rubber gloves. Butylrubber protective gloves.

Other information:

Do not put the product-soaked rags into the pockets of working clothes. Do not use cloths stained with the product to dry hands. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke during use. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: liquid		
Appearance	: liquid.		
Colour	: Pink.		
Odour	: odourless.		
Odour threshold	: no data available		
pH	: no data available		
pH solution	: 7 - 10		
Relative evaporation rate (butylacetate=1)	: < 0,1		
Melting point	: <= -15 °C		

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Freezing point	: no data available	
Boiling point	: > 100 °C	
Flash point	: 111 °C	
Auto-ignition temperature	: > 390 °C	
Decomposition temperature	: no data available	
Flammability (solid, gas)	: no data available	
Vapour Pressure 20°C	: < 2 hPa	
Relative vapour density at 20 °C	: > 1 (air=1)	
Relative density	: no data available	
Density	: 0,790 - 0,800 kg/l	
Solubility	: Miscible with water.	
Log Pow	: < -0,1	
Viscosity, kinematic	: no data available	
Viscosity, dynamic	: no data available	
Explosive properties	: no data available	
Oxidising properties	: no data available	
Explosive limits	: no data available	
9.2. Other information		
VOC content	:0%	
Other properties	: Gas/vapour heavier than air at 20'C.	

SECTION 10: Stability and reactivity
10.1. Reactivity
Stable under normal conditions of use.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
Refer to section 10.1 on Reactivity.
10.4. Conditions to avoid
Moisture. Overheating.
10.5. Incompatible materials
Strong oxidizing agents. strong acids.
10.6. Hazardous decomposition products
CO, CO2.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Harmful if swallowed. (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Eurol Antifreeze GLX	
ATE CLP (oral)	500 mg/kg bodyweight

ethane-1,2-diol (107-21-1)			
LD50 oral rat	4000 mg/kg		
LD50 dermal rat	> 3500 ml/kg		
LD50 dermal	> 3500 mg/kg		
LC50 inhalation rat (mg/l)	> 2,5 mg/l (6h)		
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 2,5 mg/l/4h (6h)		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
STOT-single exposure	: Not classified		

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5 5 X ,		
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).	
Aspiration hazard	: Not classified	
Other information	: Toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the toxicology of similar products. Likely route of exposure: ingestion, skin and eye.	
SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	· Ecotoxicological data have not been determined specifically for this product. Information	

Ecology - general	: Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.		
Hazardous to the aquatic environment, short-term (acute)	: Not classified		
Hazardous to the aquatic environment, long-term (chronic)	: Not classified		
ethane-1,2-diol (107-21-1)			
LC50 fish 1	41000 mg/l (96h; Oncorhynchus mykiss)		
LC50 fish 2	14 - 18 ml/l (96h; Oncorhynchus mykiss [static])		
EC50 Daphnia 1	46300 mg/l (48h; Daphnia magna)		
EC50 other aquatic organisms 1	6500 (6500 - 13000) mg/l (96h; Pseudokirchneriella Subcapitata)		
Threshold limit algae 1	10000 mg/l (168 h; Scenedesmus quadricauda)		
Threshold limit algae 2	2000 mg/l (192 h; Microcystis aeruginosa)		
12.2. Persistence and degradability			
ethane-1,2-diol (107-21-1)			
Persistence and degradability	Readily biodegradable in water. easily degradable in the soil.		
Biochemical oxygen demand (BOD)	0,47 g O ₂ /g substance		
Chemical oxygen demand (COD)	1,24 g O ₂ /g substance		
ThOD	1,29 g O ₂ /g substance		
BOD (% of ThOD)	0,36		
12.3. Bioaccumulative potential			
Eurol Antifreeze GLX			
Log Pow	< -0,1		

ethane-1,2-diol (107-21-1)			
Log Pow	-1,36		
Bioaccumulative potential	No bioaccumulation.		
12.4. Mobility in soil			
ethane-1,2-diol (107-21-1)			
Surface tension 0,048 N/m (20 °C)			
12.5. Results of PBT and vPvB assessment No additional information available			
12.6. Other adverse effects No additional information available			

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Regional legislation (waste)	: Disposal must be done according to official regulations.		
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not discharge into drains or the environment.		
Additional information	: Hazardous waste.		
Ecology - waste materials	: Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly. When not empty dispose of this container at hazardous or special waste collection point.		

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European List of Waste (LoW) code

: 16 01 14* - antifreeze fluids containing dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

n accordance with ADR / RID	/ IMDG / IATA / ADN			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

No supplementary information available

14.6. Special precautions for user

Overland transport

no data available

Transport by sea

no data available

Air transport

no data available

Inland waterway transport

no data available

Rail transport

no data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content

:0%

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

SECTION 2. SECTION 3.

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Section	Changed it	em	Change	Comments	
	Supersedes	3	Modified		
	Revision date		Modified		
	For mixture		Added		
2.2	Hazard stat	ements (CLP)	Modified		
3	Composition ingredients	n/information on	Modified		
15.2	Chemical s	afety assessment	Added		
16	Abbreviations and acronyms		Added		
Abbreviations and acronyms:					
CLP		Classification Labelling	Packaging Regulation; Regulation (EC) No 1272/2008	
LD50		Median lethal dose			
ATE		Acute Toxicity Estimate)		
LOAEL		Lowest Observed Adve	erse Effect Level		
BCF		Bioconcentration factor			
NOAEC		No-Observed Adverse	Effect Concentration		
NOAEL		No-Observed Adverse	Effect Level		
OECD		Organisation for Econo	mic Co-operation and Development		
NOEC		No-Observed Effect Co	ncentration		
		Median effective conce	ntration		
IARC International Agency		International Agency fo	or Research on Cancer		
LC50		Median lethal concentra	ation		
PBT Persistent Bioaccumula		ative Toxic			
REACH	Registration, Evaluatio		n, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
SDS	Safety Data Sheet				
vPvB	Very Persistent and Ve				
RID	Regulations concerning		the International Carriage of Dangerous Goods by Rail		
IMDG		International Maritime	Jangerous Goods		
ΙΑΤΑ	International Air Transp		ort Association		
ADR	ADR European Agreement c		concerning the International Carriage of Dangerous Goods by Road		
ADN		European Agreement c	oncerning the International Carriage of Dangerous Goods by Inland Waterways		
Full text of H- and EUH-s	statements:				
Acute Tox. 4 (Oral)		Acute toxicity (oral), Ca	itegory 4		
Eye Dam. 1		Serious eye damage/ey	/e irritation, Category 1		
Eye Irrit. 2		Serious eye damage/ey	ye irritation, Category 2		
Repr. 2 Reproductive toxicity, 0		Reproductive toxicity, C	Category 2		
Skin Irrit. 2 Skin corrosion/irritation		i, Category 2			
STOT RE 2 Specific target organ to		oxicity — Repeated exposure, Category 2			
H302	Harmful if swallowed.				
H315		Causes skin irritation.			
H318 Causes serious eye da		mage.			
H319	H319 Causes serious eye irri		itation.		
H361d Suspected of damaging		g the unborn child.			
H373 May cause damage to		organs through prolonged or repeate	ed exposure.		

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SDS EU (REACH Annex II) - Copy Eurol

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.