

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Review date: 05/11/2021 Supersedes version of: 16/10/2020 Version: 5.1

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

1.1. Product identifier

Product form : Mixture

: Mida MEMCARE 510 Product name

Product code : 770 Type of product : Detergent

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

#### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

Use of the substance/mixture : Acidic detergent for membrane cleaning

### 1.2.2. Uses advised against

No additional information available

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

# Manufacturer

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#### Distributor

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T Tel: +353 1 8146022

### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals

#### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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

Met. Corr. 1 H290 Acute Tox. 3 (Inhalation:vapour) H331 Skin Corr. 1A H314

Full text of hazard classes, H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

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#### 2.2. Label elements

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

Hazard pictograms (CLP)





GHS05

GHS06

CLP Signal word : Danger Contains : Nitric acid

Hazard statements (CLP) : H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H331 - Toxic if inhaled.

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P304+P340+P311 - IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Call a POISON CENTER or doctor.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/doctor.

**EUH-statements** : EUH071 - Corrosive to the respiratory tract.

#### 2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

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

### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitric acid substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-no: 7697-37-2 Einecs nr: 231-714-2 EG annex nr: 007-004-00-1 REACH-no: 01-2119487297- 23	30 – 60	Ox. Liq. 2, H272 Acute Tox. 3 (Inhalation:vapour), H331 Skin Corr. 1A, H314
Phosphoric acid substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-no: 7664-38-2 Einecs nr: 231-633-2 EG annex nr: 015-011-00-6 REACH-no: 01-2119485924- 24	10 – 30	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Nitric acid	CAS-no: 7697-37-2 Einecs nr: 231-714-2 EG annex nr: 007-004-00-1 REACH-no: 01-2119487297- 23	( 5 ≤C < 20) Skin Corr. 1B, H314 ( 13 <c (inhalation),="" 26)="" 4="" acute="" h332<br="" tox.="" ≤="">( 20 ≤C &lt; 100) Skin Corr. 1A, H314 ( 26 <c (inhalation),="" 100)="" 3="" acute="" h331<br="" tox.="" ≤="">( 65 ≤C &lt; 99) Ox. Liq. 3, H272 ( 99 ≤C &lt; 100) Ox. Liq. 2, H272</c></c>
Phosphoric acid	CAS-no: 7664-38-2 Einecs nr: 231-633-2 EG annex nr: 015-011-00-6 REACH-no: 01-2119485924- 24	( 10 ≤C < 25) Skin Irrit. 2, H315 ( 10 ≤C < 25) Eye Irrit. 2, H319 ( 25 ≤C < 100) Skin Corr. 1B, H314

Full text of H- and EUH-statements: see section 16

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

#### 4.1. Description of first aid measures

General advice : In all cases of doubt, or when symptoms persist, seek medical attention. Only qualified

personnel equipped with suitable protective equipment may intervene.

Inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical

advice/attention.

Skin contact : Immediately remove contaminated clothing or footwear. Wash immediately with plenty of

water. Immediately consult a doctor/medical service.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion : Rinse mouth out with water. Do not induce vomiting. Immediately consult a doctor/medical

service.

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

Acute effects inhalation : Toxic and corrosive vapours may be released. Symptoms may be delayed.

Acute effects skin : Burns upon contact with the skin.

Acute effects eyes : Corrosive to eyes.

Acute effects oral route : Burns of the upper digestive and respiratory tracts.

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

Treat symptomatically. Symptoms may be delayed.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream. dry chemical powder.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : May intensify fire; oxidiser.

Hazardous decomposition products in case of fire : Combustion products may include the following: carbon oxides (CO, CO2) (carbon

monoxide, carbon dioxide) nitrogen oxides (NO, NO<sub>2</sub> etc.).

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

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

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

General measures : Ensure adequate ventilation. Avoid inhalation of vapours.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb spilled material with sand or earth. Shovel or sweep up and put in a closed

container for disposal.

### 6.4. Reference to other sections

No additional information available

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Never mix with other materials. Never return unused material to original container.

Hygiene measures : Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in original container. Keep container tightly closed in a cool place. Protect from

sunlight. Store in a well-ventilated place.

Material(s) to avoid : Never mix with other materials.

### 7.3. Specific end use(s)

No additional information available

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

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

2.1.1 National occupational exposure and biological limit values		
Phosphoric acid (7664-38-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Orthophosphoric acid	
IOEL TWA	1 mg/m³	
IOEL STEL	2 mg/m³	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits		
Local name	Orthophosphoric acid	
WEL TWA (OEL TWA) [1]	1 mg/m³	
WEL STEL (OEL STEL)	2 mg/m³	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
Nitric acid (7697-37-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Nitric acid	
IOEL STEL	2.6 mg/m³	
IOEL STEL [ppm]	1 ppm	
United Kingdom - Occupational Exposure Limits		
Local name	Nitric acid	
WEL STEL (OEL STEL)	2.6 mg/m³	
WEL STEL (OEL STEL) [ppm]	1 ppm	

#### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No additional information available

### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

### Eye protection:

Safety glasses with side-shields (EN 166)

### 8.2.2.2. Skin protection

### Protective equipment:

Wear suitable protective clothing minimum (EN 13034) Type 6 equipment

### Hand protection:

Chemical resistant PVC gloves (to European standard EN 374 or equivalent)

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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Respiratory protection			
Device	Filter type	Condition	Standard
Full face mask	B+E/P3		EN 136, EN 140, EN 143, EN 145, EN 149

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

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

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Colourless.

Odour : Pungent. Characteristic.

Odour threshold : Not available Melting point/range : Not available Freezing point : Not available Boiling point/Boiling range : Not available : Not available Flammability **Explosive limits** : Not available Lower explosive limit (LEL) : Not available Upper explosive limit (UEL) : Not available : Not available Flash point : Not available Autoignition temperature Decomposition temperature : Not available pН  $: 1.5 \pm 0.5 (1\%)$ Viscosity, kinematic · Not available

: Not available : Soluble in water. Water: Soluble

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available Density : 1.4 kg/l Relative density : Not available

Relative vapour density at 20 °C : Not available Particle size : Not applicable Particle size distribution : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable Particle aggregation state : Not applicable Particle agglomeration state : Not applicable Particle specific surface area : Not applicable Particle dustiness : Not applicable

#### 9.2. Other information

Solubility

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

No additional information available

### **SECTION 10: Stability and reactivity**

10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

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### 10.3. Possibility of hazardous reactions

Contact with alkaline products gives exothermic reaction. Exothermic reaction with water.

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

Never mix with other materials. Bases.

### 10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.

### **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Toxic if inhaled.

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Mida MEMCARE 510		
ATE CLP (vapours)	7.465 mg/l/4h	
Phosphoric acid (7664-38-2)		
LD50 oral rat	> 300 mg/kg bodyweight	
LD50 dermal	2740 mg/kg bodyweight	
LC50 Inhalation - Rat	850 mg/l	
Nitric acid (7697-37-2)		
LC50 Inhalation - Rat (Vapours)	2.65 mg/l/4h	
Skin corrosion/irritation	: Causes severe skin burns.	
	pH: 1,5 ± 0,5 (1%)	
Serious eye damage/irritation	: Assumed to cause serious eye damage	
	pH: 1,5 ± 0,5 (1%)	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	

Phosphoric acid (7664-38-2)		
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
Nitric acid (7697-37-2)		
NOAEL (oral, rat, 90 days)	1500 mg/kg bodyweight/day	
NOAEC (inhalation, rat, gas, 90 days)	2.15 ppm	
Aspiration hazard	: Not classified	

### 11.2. Information on other hazards

No additional information available

### **SECTION 12: Ecological information**

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Phosphoric acid (7664-38-2)	
LC50 - Fish [1]	3 – 3.25 mg/l
EC50 - Crustacea [1]	> 100 mg/l (OESO 202 (ECHA))
EC50 - Other aquatic organisms [1]	> 100 mg/l waterflea

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Phosphoric acid (7664-38-2)		
EC50 - Other aquatic organisms [2]	> 100 mg/l	
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
NOEC chronic algae	100 mg/l	
Nitric acid (7697-37-2)		
LC50 - Fish [1]	3.7 mg/l (Oncorhynchus mykiss)	
EC50 - Crustacea [1]	8609 mg/l	
NOEC chronic fish	97.8 mg/l	
NOEC chronic algae	6.75	

#### 12.2. Persistence and degradability

Mida MEMCARE 510		
Persistence and degradability  Not applicable.		
Nitric acid (7697-37-2)		
,		

### 12.3. Bioaccumulative potential

Mida MEMCARE 510	
Bioaccumulative potential No bioaccumulation.	
Phosphoric acid (7664-38-2)	
Log Pow -0.77	
Nitric acid (7697-37-2)	

No bioaccumulation.

# Bioaccumulative potential 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

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

### 13.1. Waste treatment methods

Waste / unused products

- : Collect all waste in suitable and labelled containers and dispose according to local  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left$
- legislation.

European List of Waste (LoW) code : 20 01 29\* - detergents containing dangerous substances

### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA		
14.1. UN number or ID n	14.1. UN number or ID number			
UN 3264	UN 3264	UN 3264		
14.2. UN proper shippin	g name			
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	Corrosive liquid, acidic, inorganic, n.o.s.		
Transport document descr	iption			
UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid; Nitric acid), 8, II, (E)	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid; Nitric acid), 8, II	UN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid; Nitric acid), 8, II		

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ADR	IMDG	IATA	
14.3. Transport hazard class(es)			
8	8	8	
	8	8	
14.4. Packing group			
II	II	ll .	
14.5. Environmental haz	zards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	
No supplementary information	on available		

### 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : C1
Special provisions (ADR) : 274
Limited quantities (ADR) : 11

Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container instructions : T11

(ADR)

Portable tank and bulk container special provisions

(ADR)

Tank code (ADR) : L4BN

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Hazard identification number (Kemler No.) : 80
Orange plates :

80 3264

: TP2, TP27

Tunnel code : E
EAC code : 2X
APP code : B

#### Transport by sea

Special provisions (IMDG) : 274
Limited quantities (IMDG) : 1 L
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02

### Air transport

PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity (IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provisions (IATA) : A3

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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#### **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

Contains substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

### ANNEX I RESTRICTED EXPLOSIVES PRECURSORS

List of substances which shall not be made available to, or introduced, possessed or used by, members of the general public, whether on their own or in mixtures or substances that include those substances, unless the concentration is equal to or lower than the limit values set out in column 2, and for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

Name	CAS-No.	Limit value	Upper limit value for licensing under Article 5(3)	Combined Nomenclature (CN) code for a separate chemically defined compound meeting the requirements of Note 1 to Chapter 28 or 29 of the CN, respectively	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Nitric acid	7697-37-2	3 % w/w	10% w/w	ex 2808 00 00	ex 3824 99 96

Please see https://ec.europa.eu/home-affairs/system/files/2021-05/list\_of\_competent\_authorities\_and\_national\_contact\_points\_en.pdf

### 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	Changed item	Change	Comments
15	Subject to Regulation (EU) 2019/1148		

Abbreviations and acronyms:		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
ErC50 (algae)	ErC50 (algae)	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	

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Abbreviations and acronyms:		
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
vPvB	Very Persistent and Very Bioaccumulative	

#### Other information

: It is recommended to pass the information of this safety data sheet in an appropriate form to the users. Such information is actually the best of our knowledge and believes accurate as reliable. This information relates to the specific material designated and may not be valid in combination with other products.

This safety data sheet is in compliance with 1907/2006/EEC. It is user's liabilities to take all necessary measures to meet local required laws and regulations. The producer is not responsable for any damage and loss due to the use of information mentioned in this safety data sheet.

Full text of H- and EUH-statements:		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
EUH071	Corrosive to the respiratory tract.	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H272	May intensify fire; oxidiser.	
H290	May be corrosive to metals.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
Met. Corr. 1	Corrosive to metals, Category 1	
Ox. Liq. 2	Oxidising Liquids, Category 2	
Ox. Liq. 3	Oxidising Liquids, Category 3	
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Met. Corr. 1	H290	Calculation method
Acute Tox. 3 (Inhalation:vapour)	H331	Calculation method
Skin Corr. 1A	H314	Calculation method

Safety Data Sheet (SDS), EU

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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.