



# Willowchem 80

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Issue date: 2/2/2022 Supersedes version of: 4/10/2016 Version: 3.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Willowchem 80

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

##### 1.2.1. Relevant identified uses

No additional information available

##### 1.2.2. Uses advised against

No additional information available

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

##### Supplier

MPE Limited  
Unit 6/7 Hirwaun Industrial Estate  
Hirwaun, Aberdare  
CF44 9UP Rhondda Cynon Taff - United Kingdom  
T +44 (0)1685 812765  
[sales@mpelimited.co.uk](mailto:sales@mpelimited.co.uk)

#### 1.4. Emergency telephone number

Emergency number : +44 (0)1685 812765

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1 H290  
Acute toxicity (oral), Category 3 H301  
Acute toxicity (dermal), Category 2 H310  
Acute toxicity (inhalation:dust,mist) Category 3 H331  
Skin corrosion/irritation, Category 1, Sub-Category 1A H314  
Serious eye damage/eye irritation, Category 1 H318  
Full text of H-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Fatal in contact with skin. Toxic if inhaled. Toxic if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.

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### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS06

Signal word (CLP) :

Danger

Contains :

nitric acid ... %; hydrofluoric acid ... %

Hazard statements (CLP) :

H290 - May be corrosive to metals.

H301+H331 - Toxic if swallowed or if inhaled.

H310 - Fatal in contact with skin.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) :

P260 - Do not breathe fume, mist, spray, vapours.

P280 - Wear protective clothing, eye protection, face protection, protective gloves.

P284 - Wear respiratory protection.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.

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

Rinse skin with water or shower.

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

P310 - Immediately call a doctor, a POISON CENTER.

EUH-statements

: EUH071 - Corrosive to the respiratory tract.

### 2.3. Other hazards

No additional information available

## 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 ... %	CAS-No.: 7697-37-2 EC-No.: 231-714-2 EC Index-No.: 007-004-00-1 REACH-no: 01-2119487297-23	30 – 50	Ox. Liq. 2, H272 Skin Corr. 1A, H314
hydrofluoric acid ... %	CAS-No.: 7664-39-3 EC-No.: 231-634-8 EC Index-No.: 009-003-00-1 REACH-no: 01-2119458860-33	1 – 10	Acute Tox. 2 (Inhalation), H330 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Oral), H300 Skin Corr. 1A, H314

### Specific concentration limits

Name	Product identifier	Specific concentration limits
nitric acid ... %	CAS-No.: 7697-37-2 EC-No.: 231-714-2 EC Index-No.: 007-004-00-1 REACH-no: 01-2119487297-23	( 5 ≤C < 20) Skin Corr. 1B, H314 ( 20 ≤C ≤ 100) Skin Corr. 1A, H314 ( 65 ≤C < 99) Ox. Liq. 3, H272 ( 99 ≤C ≤ 100) Ox. Liq. 2, H272

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Specific concentration limits		
Name	Product identifier	Specific concentration limits
hydrofluoric acid ... %	CAS-No.: 7664-39-3 EC-No.: 231-634-8 EC Index-No.: 009-003-00-1 REACH-no: 01-2119458860-33	( 0.1 ≤ C < 1) Eye Irrit. 2, H319 ( 1 ≤ C < 7) Skin Corr. 1B, H314 ( 7 ≤ C ≤ 100) Skin Corr. 1A, H314

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Call a physician immediately. First responders should be careful not to contaminate themselves & should wear suitable PPE for treatment. Transfer to hospital as soon as possible.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a doctor. Call a physician immediately. Transfer to hospital as soon as possible.
First-aid measures after skin contact	: Call a physician immediately. Take off immediately all contaminated clothing. Rinse skin with water/shower. Apply Calcium Gluconate gel to site of exposure whilst wearing gloves. Transfer to hospital as soon as possible.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. Transfer to hospital as soon as possible.
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately. Do not induce vomiting. Transfer to hospital as soon as possible.

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

Symptoms/effects	: At lower concentrations of hydrofluoric acid symptom may be delayed after exposure.
Symptoms/effects after inhalation	: May cause acute systematic poisoning by absorption through skin, by inhalation or evolved fumes/vapours/mists, or by ingestion. Absorption into the blood of fluoride ions by any route can cause acute systemic poisoning. Inhalation of NOx fumes can result in coughing, nausea & tiredness. High exposure levels can cause severe reactions including swelling of airways & the development of fluid on the lungs.
Symptoms/effects after skin contact	: Burns. Progressive ulceration will occur if treatment is not prompt. Product is readily absorbed through the skin and may carry such materials into the body & blood stream. Absorption through the skin may be fatal. May cause acute systematic poisoning by absorption through skin, by inhalation or evolved fumes/vapours/mists, or by ingestion.
Symptoms/effects after eye contact	: Serious damage to eyes. Corneal burns may occur.
Symptoms/effects after ingestion	: Burns. May cause acute systematic poisoning by absorption through skin, by inhalation or evolved fumes/vapours/mists, or by ingestion. Absorption into the blood of fluoride ions by any route can cause acute systemic poisoning.

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

Show this safety data sheet to the doctor in attendance. A decontamination shower or running water should be available on the premises. Eye bathing equipment or running water should be available on the premises. Apply Calcium Gluconate gel to site of exposure whilst wearing gloves. Treat symptomatically. First responders should be careful not to contaminate themselves & should wear suitable PPE for treatment. At lower concentrations of hydrofluoric acid symptom may be delayed after exposure.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released. Attacks many metals releasing highly flammable gas (hydrogen) which generates fire or explosion hazards.

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### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material. Neutralise spillage with alkaline material (i.e. soda ash, sodium bicarbonate).

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Do not breathe fume, mist, spray, vapours. It is recommended to carry out handling & processing operations utilising a suitable LEV systems. It is recommended to have a HF emergency kit, which contains Calcium Gluconate gel, to hand whilst carrying out handling & processing operations, and to avoid lone working conditions.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Incompatible products : Keep away from food & feed stuffs.

Incompatible materials : Metals.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

No additional information available

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### 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

#### Appropriate engineering controls:

Ensure good ventilation of the work station. It is recommended to carry out handling & processing operations utilising a suitable LEV systems.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Face shield. Gloves. Protective clothing. Gas mask.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses. Wear suitable face shield

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing. acid-resistant protective clothing

##### Hand protection:

Protective gloves

##### Other skin protection

##### Materials for protective clothing:

acid-resistant protective clothing. Butyl-rubber protective gloves

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection. Particle filter class P3SL (EN143). Gas/Vapour filter, type B: Inorganic vapours (Excluding CO) (EN141). Gas/Vapour filter, Type E: sulphur dioxide and other acid gases (EN141)

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless to yellow.

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Odour	: acidic. Acrid. Pungent.
Odour threshold	: No data available
pH	: ≈ 1
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: ≈ 0 °C
Boiling point	: ≈ 100 °C
Flash point	: > 70 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: ≈ 1.28 g/ml @ 20°C
Solubility	: completely miscible.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Non-oxidising according to EC Criteria.
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

metals.

### 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 (oral)	: Toxic if swallowed.
Acute toxicity (dermal)	: Fatal in contact with skin.
Acute toxicity (inhalation)	: Toxic if inhaled.

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ATE CLP (oral)	55.617 mg/kg bodyweight
ATE CLP (dermal)	55.617 mg/kg bodyweight

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ATE CLP (dust,mist)	0.556 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns. pH: $\approx$ 1
Serious eye damage/irritation	: Causes serious eye damage. pH: $\approx$ 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
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
Not rapidly degradable	

### 12.2. Persistence and degradability

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Persistence and degradability	The product is inorganic so can not be biodegradable, however it is expected to degrade or disassociate.

### 12.3. Bioaccumulative potential

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Bioaccumulative potential	The product is not expected to bioaccumulate.

### 12.4. Mobility in soil

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Additional information	Not volatile. soluble in water

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects	: Prevent liquid from entering sewers, watercourses, and soil. Large doses can cause high/low pH which may affect effluent and sewage treatment processes. Discharge of large quantities may kill fish and other aquatic life due to increase/decrease in pH. Fluorides will cause brown discolouration of leaves and shedding at 0.1 ppb (As F), sensitive at 0.1 ppb.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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Product/Packaging disposal recommendations : Contaminated containers must not be treated as household waste. Where practical, containers & packaging should be recycled by a licenced contractor.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 2922	UN 2922	UN 2922	UN 2922	UN 2922
<b>14.2. UN proper shipping name</b>				
CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid, hydrofluoric acid, mixture)	CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid, hydrofluoric acid, mixture)	Corrosive liquid, toxic, n.o.s. (nitric acid, hydrofluoric acid, mixture)	CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid, hydrofluoric acid, mixture)	CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid, hydrofluoric acid, mixture)
<b>Transport document description</b>				
UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid, hydrofluoric acid, mixture), 8 (6.1), II, (E)	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid, hydrofluoric acid, mixture), 8 (6.1), II	UN 2922 Corrosive liquid, toxic, n.o.s. (nitric acid, hydrofluoric acid, mixture), 8 (6.1), II	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid, hydrofluoric acid, mixture), 8 (6.1), II	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid, hydrofluoric acid, mixture), 8 (6.1), II
<b>14.3. Transport hazard class(es)</b>				
8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
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

Classification code (ADR) : CT1  
Special provisions (ADR) : 274  
Limited quantities (ADR) : 1I  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001, IBC02  
Mixed packing provisions (ADR) : MP15  
Portable tank and bulk container instructions (ADR) : T7  
Portable tank and bulk container special provisions (ADR) : TP2  
Tank code (ADR) : L4BN  
Vehicle for tank carriage : AT  
Transport category (ADR) : 2  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28  
Hazard identification number (Kemler No.) : 86



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Orange plates : 

Tunnel restriction code (ADR) : E  
EAC code : 2X

### Transport by sea

Special provisions (IMDG) : 274  
Limited quantities (IMDG) : 1 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP2  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-B  
Stowage category (IMDG) : B  
Stowage and handling (IMDG) : SW2  
Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes. Toxic if swallowed, by skin contact or by inhalation.

### Air transport

PCA Excepted quantities (IATA) : E2  
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, A803  
ERG code (IATA) : 8P

### Inland waterway transport

Classification code (ADN) : CT1  
Special provisions (ADN) : 274, 802  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Equipment required (ADN) : PP, EP, TOX, A  
Ventilation (ADN) : VE02  
Number of blue cones/lights (ADN) : 2

### Rail transport

Classification code (RID) : CT1  
Special provisions (RID) : 274  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02  
Mixed packing provisions (RID) : MP15  
Portable tank and bulk container instructions (RID) : T7  
Portable tank and bulk container special provisions (RID) : TP2  
Tank codes for RID tanks (RID) : L4BN  
Transport category (RID) : 2  
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW28  
Colis express (express parcels) (RID) : CE6  
Hazard identification number (RID) : 86

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

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

##### 15.1.2. National regulations

France	
Occupational diseases	
Code	Description
RG 32	Occupational disorders caused by fluoride, hydrofluoric acid and its mineral salts

##### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen –

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

##### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

##### Switzerland

Storage class (LK) : LK 6.1 - Toxic materials

Chemicals Ordinance (SR 813.11) : Group 1

##### United Kingdom

British National Regulations : Seveso directive 96/82/EC.  
This product is controlled under Regulation (EU) No 98/2013 on the marketing and use of explosive precursors, and The Control of Explosive Precursor Regulations 2014 (SI 1942).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

#### Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor

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Abbreviations and acronyms	
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
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
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Other information

: The product is intended for professional use. It is recommended to have a HF emergency kit, which contains Calcium Gluconate gel, to hand whilst carrying out handling & processing operations, and to avoid lone working conditions. The product should only be handled by persons who are suitably trained.

Full text of H- and EUH-statements	
Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2

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Full text of H- and EUH-statements	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
EUH071	Corrosive to the respiratory tract.

Safety Data Sheet (SDS), EU

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.