

<b>Product Name</b>	Pelox Pickling Spray SP-K 3000 Red
<b>Part Number</b>	855030
<b>SDS Document Number</b>	SDS_Pelox Pickling Spray SP-K Red_V1.0_071221
<b>Issue Date</b>	07/12/21

## SECTION 1: PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL

### Product Identifier

Product Name: Pelox Pickling Spray SP-K 3000 Red  
 Part Numbers: 855030

### Relevant identified uses of the substance and uses advised against

Pickling Spray for Stainless Steel Surfaces

### Uses advised against

Do not use for products which come into direct contact with the skin

### Details of the supplier

Supplier Name: Dynaweld Industrial Supplies Pty Ltd  
 Address: Building 2, 10 Jessica Place, Prestons NSW 2214, Australia  
 Phone: +61 2 8761 6500  
 Email: sales@dynaweld.com.au  
 Web Site: <https://www.dynaweld.com.au>

### Emergency phone number

Emergency Phone: +61 2 8761 6500 (Australia)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
2.16	substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.10	acute toxicity (oral)	3	Acute Tox. 3	H301
3.1D	acute toxicity (dermal)	2	Acute Tox. 2	H310
3.1I	acute toxicity (inhal.)	3	Acute Tox. 3	H331

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
3.2	skin corrosion/irritation	1	Skin Corr. 1	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

For full text of abbreviations: see SECTION 16

### The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

Spillage and fire water can cause pollution of watercourses.

## 2.2 Label elements

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

**Signal word** danger

### Pictograms

GHS05, GHS06



### Hazard statements

- 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

- P260** Do not breathe 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): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
**P310** Immediately call a POISON CENTER/doctor.  
**P405** Store locked up.

### Supplemental hazard information

**EUH071** Corrosive to the respiratory tract.

**Hazardous ingredients for labelling** hydrofluoric acid  
nitric acid

## 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

**Results of PBT and vPvB assessment**

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






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

**3.1 Substances**

Not relevant (mixture).

**3.2 Mixtures**

**Description of the mixture**

Hazardous ingredients							
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes	Specific Conc. Limits	M-Factors
nitric acid	CAS No 7697-37-2  EC No 231-714-2  Index No 007-004-00-1  REACH Reg. No 01- 211948729 7-23-xxxx	25 – <5 0	Ox. Liq. 2 / H272 Met. Corr. 1 / H290 Acute Tox. 3 / H331 Skin Corr. 1A / H314 Eye Dam. 1 / H318	  	B(a) GHS- HC IOELV	Ox. Liq. 2; H272: C ≥ 99 % Ox. Liq. 3; H272: 65 % ≤ C < 99 % Skin Corr. 1A; H314: C ≥ 20 % Skin Corr. 1B; H314: 5 % ≤ C < 20 % Skin Irrit. 2; H315: 1 % ≤ C < 5 % Eye Dam. 1; H318: C ≥ 3 % Eye Irrit. 2; H319: 1 % ≤ C < 3 %	
hydrofluoric acid	CAS No 7664-39-3  EC No 231-634-8  Index No 009-003-00-1  REACH Reg. No 01- 211945886 0-33-xxxx	5 – <10	Met. Corr. 1 / H290 Acute Tox. 2 / H300 Acute Tox. 1 / H310 Acute Tox. 2 / H330 Skin Corr. 1A / H314 Eye Dam. 1 / H318	 	B(a) GHS- HC IOELV	Skin Corr. 1A; H314: C ≥ 7 % Skin Corr. 1B; H314: 1 % ≤ C < 7 % Eye Dam. 1; H318: C ≥ 1 % Eye Irrit. 2; H319: 0.1 % ≤ C < 1 %	

**Notes**

B(a): The classification refers to an aqueous solution

**Notes**

GHS- Harmonised classification (the classification of the substance corresponds to the entry in the list according to

HC: 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

for full text of H-phrases: see SECTION 16

**SECTION 4: First aid measures****4.1 Description of first aid measures****General notes**

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

Self-protection of the first aider.

**Following inhalation**

Provide fresh air.

Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

In case of respiratory tract irritation, consult a physician.

**Following skin contact**

Rub with a gel containing calcium gluconate.

Call a physician immediately. Causes poorly healing wounds.

**Following eye contact**

Rinse cautiously with water for several minutes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Remove contact lenses, if present and easy to do. Continue rinsing.

Rinse copiously with a calcium gluconate solution.

**Following ingestion**

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Get medical advice/attention if you feel unwell.

**Notes for the doctor**

None.

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

These information are not available.

**4.3 Indication of any immediate medical attention and special treatment needed**

None.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

water jet

**5.2 Special hazards arising from the substance or mixture**

Hazardous decomposition products: Section 10.

Substance or mixture corrosive to metals.

**Hazardous combustion products**

nitrogen oxides (NO<sub>x</sub>)

**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

**Special protective equipment for firefighters**

use suitable breathing apparatus

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Remove persons to safety.

Ventilate affected area.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

**For emergency responders**

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

Chemical protection suit.

**6.2 Environmental precautions**

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

If substance has entered a water course or sewer, inform the responsible authority.

**6.3 Methods and material for containment and cleaning up**

**Advice on how to clean up a spill**

Collect spillage.

Universal binder.

Avoid mixing with flammable or combustible substances (e.g. sawdust).

**Appropriate containment techniques**

Neutralisation techniques.

Use of adsorbent materials.

**Other information relating to spills and releases**

Place in appropriate containers for disposal.

Ventilate affected area.

**6.4 Reference to other sections**

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation.

When diluting, always stir the product into standing water.

**Specific notes/details**

Reactivity in dry state.

**Handling of incompatible substances or mixtures**

Do not mix with alkali.

Metals (due to the release of hydrogen in an acid/alkaline medium).

**Keep away from**

caustic solutions, organic absorbing material, metals (including their alloys)

**Measures to protect the environment**

Avoid release to the environment.

**Advice on general occupational hygiene**

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

**7.2 Conditions for safe storage, including any incompatibilities****Corrosive conditions**

Store in corrosive resistant container with a resistant inner liner.

### Flammability hazards

None.

### Incompatible substances or mixtures

Incompatible materials: see section 10.  
Observe hints for combined storage.

### Protect against external exposure, such as

frost

### Consideration of other advice

Keep away from food, drink and animal feedingstuffs.

### Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.  
Provision of sufficient ventilation.

### Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Notation	Source
EU	nitrogen dioxide	10102-44-0	IOELV	0.5	0.96	1	1.91		2017/164/EU
EU	hydrogen fluoride	7664-39-3	IOELV	1.8	1.5	3	2.5		2000/39/EC
EU	nitric acid	7697-37-2	IOELV			1	2.6		2006/15/EC
GB	nitrogen dioxide	10102-44-0	WEL	0.5	0.96	1	1.91		EH40/2005
GB	hydrogen fluoride	7664-39-3	WEL	1.8	1.5	3	2.5	F	EH40/2005
GB	nitric acid	7697-37-2	WEL			1	2.6		EH40/2005

#### Notation

F calculated as F (fluorine)

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
nitric acid	7697-37-2	DNEL	2.6 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
hydrofluoric acid	7664-39-3	DNEL	1.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
hydrofluoric acid	7664-39-3	DNEL	1.5 µg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects

Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
hydrofluoric acid	7664-39-3	PNEC	0.9 mg/l	freshwater
hydrofluoric acid	7664-39-3	PNEC	0.9 mg/l	marine water
hydrofluoric acid	7664-39-3	PNEC	51 mg/l	sewage treatment plant (STP)
hydrofluoric acid	7664-39-3	PNEC	11 mg/kg	soil

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

**Recommended protective gloves (trademark/manufacturer):** Pelox® PVC acid protective gloves.

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Type: ABEK-Hg-NO-CO-P3



**Environmental exposure controls**

Use appropriate container to avoid environmental contamination.  
Keep away from drains, surface and ground water.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

Physical state	Liquid
Form	Viscous
Colour	Red
Odour	Pungent
Odour threshold	These information are not available

**Other safety parameters**

pH (value)	<1
Melting point/freezing point	These information are not available
Initial boiling point and boiling range	106 °C
Flash point	Not applicable
Evaporation rate	These information are not available
Flammability (solid, gas)	Not relevant (fluid)

**Explosive limits**

**Lower explosion limit (LEL)** These information are not available

**Upper explosion limit (UEL)** These information are not available

Vapour pressure These information are not available

Density 1.2 g/cm<sup>3</sup>

Vapour density These information are not available

Relative density These information are not available

**Solubility(ies)**

**Water solubility** Miscible in any proportion

**Partition coefficient**

n-octanol/water (log KOW) These information are not available

Auto-ignition temperature These information are not available

Relative self-ignition temperature for solids  
(Fluid) Not relevant

Decomposition temperature

These information are not available

**Viscosity**

**Kinematic viscosity**

These information are not available

**Dynamic viscosity**

These information are not available

Explosive properties

Not explosive

Oxidising properties

Shall not be classified as oxidising

**9.2 Other information**

None

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Substance or mixture corrosive to metals.

**10.2 Chemical stability**

See below "Conditions to avoid".

**10.3 Possibility of hazardous reactions**

No known hazardous reactions.

**10.4 Conditions to avoid**

There are no specific conditions known which have to be avoided.

**10.5 Incompatible materials**

bases

Release of flammable materials with:

light metals (due to the release of hydrogen in an acid/alkaline medium), glass

**10.6 Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

Hazardous combustion products: see section 5.

Nitrogen oxides (NO<sub>x</sub>).

Hydrogen fluoride (HF).

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Classification procedure**

If not otherwise specified the classification is based on:

Ingredients of the mixture (additivity formula).

**Classification according to GHS (1272/2008/EC, CLP)**
**Acute toxicity**

Test data are not available for the complete mixture.

Toxic if swallowed.

Fatal in contact with skin.

Toxic if inhaled.

Acute toxicity of components of the mixture							
Name of substance	CAS No	Exposure route	End-point	Value	Species	Method	Source
nitric acid	7697-37-2	inhalation: vapour	LC50	>2.65 mg/l/4h	rat	OECD Guideline 403	ECHA
hydrofluoric acid	7664-39-3	inhalation: vapour	LC50	1,276 mg/m <sup>3</sup> /1h	rat		RTECS
hydrofluoric acid	7664-39-3	inhalation: vapour	LC50		rat		

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Classification procedure**

The classification is based on an extreme pH value.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation**
**Skin sensitisation**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Respiratory sensitisation**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Germ cell mutagenicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Carcinogenicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Reproductive toxicity**

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Specific target organ toxicity - single exposure**

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Specific target organ toxicity - repeated exposure**

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

**Other information**

Corrosive to the respiratory tract.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity (acute)**

Test data are not available for the complete mixture.

**Aquatic toxicity (acute) of components of the mixture**

Name of substance	CAS No	Endpoint	Value	Species	Source	Exposure time
hydrofluoric acid	7664-39-3	EC50	26 – 48 mg/l	Trichoptera	ECHA	96 h
hydrofluoric acid	7664-39-3	EC50	43 mg/l	algae	ECHA	96 h

**Aquatic toxicity (chronic)**

Test data are not available for the complete mixture.

**Aquatic toxicity (chronic) of components of the mixture**

Aquatic toxicity (chronic) of components of the mixture						
Name of substance	CAS No	Endpoint	Value	Species	Source	Exposure time
hydrofluoric acid	7664-39-3	NOEC	14.1 mg/l	daphnia magna	ECHA	21 d

**12.2 Persistence and degradability**

**Biodegradation**

Inorganic product, is not eliminable from water by means of biological cleaning processes.

**Persistence**

No data available.

**12.3 Bioaccumulative potential**

Test data are not available for the complete mixture.

**Bioaccumulative potential of components of the mixture**

Bioaccumulative potential of components of the mixture			
Name of substance	CAS No	BCF	Log KOW
hydrofluoric acid	7664-39-3	53 – 58	

**12.4 Mobility in soil**

No data 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**

Data are not available.

**Remarks**

Wassergefährdungsklasse, WGK (water hazard class): 2

**SECTION 13: Disposal considerations**
**13.1 Waste treatment methods**

This material and its container must be disposed of as hazardous waste.

**Sewage disposal-relevant information**

Do not empty into drains.


**Waste treatment of containers/packagings**

Completely emptied packages can be recycled.  
 Handle contaminated packages in the same way as the substance itself.


**Remarks**

Please consider the relevant national or regional provisions.


**SECTION 14: Transport information**

<b>14.1</b>	<b>UN number</b>	2922
<b>14.2</b>	<b>UN proper shipping name</b>	CORROSIVE LIQUID, TOXIC, N.O.S.
	<b>Technical name (hazardous ingredients)</b>	hydrofluoric acid, nitric acid
<b>14.3</b>	<b>Transport hazard class(es)</b>	
	<b>Class</b>	8
	<b>Subsidiary risk(s)</b>	6.1 (acute toxicity)
<b>14.4</b>	<b>Packing group</b>	II
<b>14.5</b>	<b>Environmental hazards</b>	-
<b>14.6</b>	<b>Special precautions for user</b>	-
<b>14.7</b>	<b>Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	-
<b>14.8</b>	<b><u>Information for each of the UN Model Regulations</u></b>	
	<b>Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).</b>	
	UN number	2922
	Proper shipping name	UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (contains: hydrofluoric acid, nitric acid), 8 (6.1), II, (E)
	Class	8
	Classification code	CT1
	Packing group	II
	Danger label(s)	8+6.1
		
	Special provisions (SP)	274, 802(ADN)
	Excepted quantities (EQ)	E2
	Limited quantities (LQ)	1 L
	Transport category (TC)	2
	Tunnel restriction code (TRC)	E
	Hazard identification No	86
	Emergency Action Code	2X

**International Maritime Dangerous Goods Code (IMDG)**

UN number	2922
Proper shipping name	UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (contains: hydrofluoric acid, nitric acid), 8 (6.1), II
Class	8
Subsidiary risk(s)	6.1
Marine pollutant	-
Packing group	II
Danger label(s)	8+6.1
	
Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-A, S-B
Stowage category	B

**International Civil Aviation Organization (ICAO-IATA/DGR)**

UN number	2922
Proper shipping name	UN2922, Corrosive liquid, toxic, n.o.s., (contains: hydrofluoric acid, nitric acid), 8 (6.1), II
Class	8
Subsidiary risk(s)	6.1
Packing group	II
Danger label(s)	8+6.1
	
Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	0,5 L

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

#### Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)			
Name of substance	Name acc. to inventory	CAS No	Restriction
Pelox® Pickling Spray SP-K 3000 red	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3

#### Legend

R3

1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

2. Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:

- can be used as fuel in decorative oil lamps for supply to the general public, and,
- present an aspiration hazard and are labelled with R65 or H304,

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).

5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

(a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';

(b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';

(c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.

6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.

7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

#### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.



**Seveso Directive**

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
H2	acute toxic (cat. 2 + cat. 3, inhal.)	50                      200	41)

**Notation**

- 41) - category 2, all exposure routes
- category 3, inhalation exposure route

**Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II**

None of the ingredients are listed.

**Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

None of the ingredients are listed.

**Water Framework Directive (WFD)**

None of the ingredients are listed.

**Regulation 98/2013/EU on the marketing and use of explosives precursors**

Not all ingredients are listed.

Explosives precursors which are subject to restrictions					
Name of substance	CAS No	Type of registration	Remarks	Limit value	Upper limit value for the purpose of licensing under Article 5(3)
nitric acid	7697-37-2	Annex I		3 % w/w	10 % w/w

**Legend**

- annex I Substances which shall not be made available to members of the general public on their own, or in mixtures or substances including them, except if the concentration is equal to or lower than the limit values set out below

**Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)**

None of the ingredients are listed.

**Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)**

None of the ingredients are listed.

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this mixture by the supplier.  
Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**
**Indication of changes (revised safety data sheet)**

Section	Former entry (text/value)	Actual entry (text/value)
1.4	Emergency telephone number: As above or next toxicological information centre.	Emergency telephone number: As above or nearest toxicological information centre.
6.3	Advices on how to clean up a spill	Advice on how to clean up a spill
8.2	Respiratory protection: ABEK-P3.	Respiratory protection: In case of inadequate ventilation wear respiratory protection. Type: ABEK-Hg-NO-CO-P3
12.2	Biodegradation: Anorganic product, is not eliminable from water by means of biological cleaning processes.	Biodegradation: Inorganic product, is not eliminable from water by means of biological cleaning processes.

**Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
2017/164/EU	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)

Abbr.	Descriptions of used abbreviations
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Met. Corr.	Substance or mixture corrosive to metals
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
Ox. Liq.	Oxidising liquid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million

Abbr.	Descriptions of used abbreviations
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
 Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).  
 International Maritime Dangerous Goods Code (IMDG).  
 Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties.  
 Health hazards.  
 Environmental hazards.  
 The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

List of relevant phrases (code and full text as stated in chapter 2 and 3)	
Code	Text
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.
H330	Fatal if inhaled.

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

Code	Text
H331	Toxic if inhaled.

**Disclaimer**

This information is based upon the present state of our knowledge.  
This SDS has been compiled and is solely intended for this product.