



TRAFIMET GROUP SPA A SOCIO UNICO

Revision nr. 2

Dated 31/10/2022

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Replaced revision:1 (Printed on: 03/01/2021)

DECAPINOX PASTA

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name
Chemical name and synonym
UFI :

DECAPINOX PASTA
UTI000059 / UTI000060 / UTI000641
3300-F0JA-X002-A17M

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

Intended use
Pickling Paste for Stainless Steel Series 300

Identified Uses	Industrial	Professional	Consumer
Surface treatment of metals	✓	✓	-
Uses Advised Against			

The relevant uses are listed above. No other uses are recommended.

1.3. Details of the supplier of the safety data sheet

Name
Full address
District and Country

TRAFIMET GROUP SPA A SOCIO UNICO
via del Lavoro, 8
36020 Castegnero (VI)
ITALIA
Tel. +39 0444 739900
Fax +39 0444 739999

e-mail address of the competent person
responsible for the Safety Data Sheet

msds@trafimet.com

1.4. Emergency telephone number

For urgent inquiries refer to
NHS 111

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Substance or mixture corrosive to metals, category 1	H290	May be corrosive to metals.
Acute toxicity, category 2	H310	Fatal in contact with skin.
Acute toxicity, category 3	H301	Toxic if swallowed.
Acute toxicity, category 3	H331	Toxic if inhaled.
Skin corrosion, category 1A	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.

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2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H290	May be corrosive to metals.
H310	Fatal in contact with skin.
H301+H331	Toxic if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
EUH071	Corrosive to the respiratory tract.

Precautionary statements:

P260	Do not breathe [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): 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 POISON CENTER / doctor.
P405	Store locked up.

Contains:	NITRIC ACID
	HYDROFLUORIC ACID
	AMMONIUM BIFLUORIDE

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3. Composition/information on ingredients
3.1. Substances

Information not relevant

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3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
NITRIC ACID		
INDEX 007-004-00-1	$13,75 \leq x < 20$	Ox. Liq. 2 H272, Acute Tox. 3 H331, Skin Corr. 1A H314, Eye Dam. 1 H318, EUH071, Classification note according to Annex VI to the CLP Regulation: B
EC 231-714-2		Ox. Liq. 2 H272: $\geq 99\%$, Ox. Liq. 3 H272: $\geq 65\%$, Skin Corr. 1A H314: $\geq 20\%$, Skin Corr. 1B H314: $\geq 5\%$
CAS 7697-37-2		LC50 Inhalation vapours: $>2,65$ mg/l/4h
REACH Reg. 01-2119487297-23		
HYDROFLUORIC ACID		
INDEX 009-003-00-1	$5 \leq x < 9,5$	Acute Tox. 1 H310, Acute Tox. 2 H300, Acute Tox. 2 H330, Skin Corr. 1A H314, Eye Dam. 1 H318, Classification note according to Annex VI to the CLP Regulation: B
EC 231-634-8		Skin Corr. 1A H314: $\geq 7\%$, Skin Corr. 1B H314: $\geq 1\%$, Eye Dam. 1 H318: $\geq 1\%$, Eye Irrit. 2 H319: $\geq 0,1\%$
CAS 7664-39-3		STA Oral: 5,001 mg/kg, STA Dermal: 5 mg/kg, STA Inhalation vapours: 0,501 mg/l, STA Inhalation mists/powders: 0,051 mg/l
REACH Reg. 01-2119458860-33		
AMMONIUM BIFLUORIDE		
INDEX 009-009-00-4	$3,5 \leq x < 6,5$	Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318
EC 215-676-4		Skin Corr. 1B H314: $\geq 1\%$, Skin Irrit. 2 H315: $\geq 0,1\%$, Eye Dam. 1 H318: $\geq 1\%$, Eye Irrit. 2 H319: $\geq 0,1\%$
CAS 1341-49-7		LD50 Oral: 130 mg/kg
REACH Reg. 01-2119489180-38		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures
4.1. Description of first aid measures

GENERAL INFORMATION

Consult a physician immediately.

IF INHALED:

If you have difficulty breathing, it may be necessary to administer oxygen. Transport the injured person to fresh air and keep him at rest in a position that favors breathing.

IN CASE OF INGESTION:

Thoroughly rinse your mouth with water. Do not induce vomiting. The practice of mouth-to-mouth resuscitation by first aid personnel can be dangerous.

IN CASE OF CONTACT WITH SKIN (or hair):

Remove contaminated clothing immediately and wash skin with soap and water. Rinse with water. Wash contaminated clothing before wearing it again. Upon contact with the hot product, immediately immerse the affected area in cold water or wash the affected area with large amounts of cold water to dissipate the heat and cover with clean gauze or cotton cloth. In case of bonding with adhesive, do not forcefully separate the skin. Wash skin thoroughly with soap and water.

IN CASE OF CONTACT WITH THE EYES:

Remove any contact lenses if easy to do. Continue rinsing with warm water for at least 15 minutes and immediately consult an ophthalmologist.

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

Fatal in contact with the skin. Toxic if swallowed or inhaled. It causes serious skin burns and serious eye injuries. Corrosive to the respiratory tract.

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



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In the event of an accident or malaise, consult a doctor immediately and show this safety data sheet.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear 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. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling



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Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):

6.1B

7.3. Specific end use(s)

The uses are indicated in Section 1.2. There are no other particular uses.

SECTION 8. Exposure controls/personal protection**8.1. Control parameters**

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

NITRIC ACID**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU			2,6	1	
TLV	DNK	2,6	1			E
VLA	ESP			2,6	1	
VLEP	FRA			2,6	1	
VLEP	ITA			2,6	1	
TLV	NOR	5	2			



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VLE	PRT			2,6	1
NDS/NDSch	POL	1,4		2,6	
NGV/KGV	SWE	1,3	0,5	2,6	1
WEL	GBR			2,6	1
OEL	EU			2,6	1
TLV-ACGIH		5,2	2	10,3	4

Predicted no-effect concentration - PNEC

Normal value in fresh water	NPI
Normal value in marine water	NPI
Normal value for fresh water sediment	NPI
Normal value for marine water sediment	NPI
Normal value of STP microorganisms	NPI
Normal value for the terrestrial compartment	NPI
Normal value for the atmosphere	NPI

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Chronic systemic	Effects on workers			Chronic systemic
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	
Oral				NEA				
Inhalation	1,3 mg/m3	NEA	1,3 mg/m3	NEA	2,6 mg/m3	NEA	2,6 mg/m3	NEA
Skin		NEA		NEA				NEA

HYDROFLUORIC ACID

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	0,83	1	1,66	2	F
VLA	ESP	1,5	1,8	2,5	3	F
VLEP	FRA	1,5	1,8	2,5	3	F
VLEP	ITA	1,5	1,8	2,5	3	F
WEL	GBR	1,5	1,8	2,5	3	F
OEL	EU	1,5	1,8	2,5	3	as F

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,9	mg/l
Normal value in marine water	0,9	mg/l
Normal value of STP microorganisms	51	mg/l
Normal value for the terrestrial compartment	11	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Chronic systemic	Effects on workers			Chronic systemic
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	
Oral		0,01 mg/kg bw/d		0,01 mg/kg bw/d				
Inhalation	1,25 mg/m3	0,03 mg/m3	0,2 mg/m3	0,03 mg/m3	2,5 mg/m3	2,5 mg/m3	0,0015 mg/m3	1,5 mg/m3
Skin	VND	VND	VND	VND	VND	VND	VND	VND



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AMMONIUM BIFLUORIDE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
MAK	DEU	1		4		INHAL	Als F
MAK	DEU	1		4		SKIN	Als F
TLV	DNK	2,5					Som F, E
VLA	ESP	2,5					Como F
VLEP	FRA	2,5					
VLEP	ITA	2,5					come F
TLV	NOR	0,5					Som F
VLE	PRT	2,5					Como F
NDS/NDSch	POL	2					Na F
NGV/KGV	SWE	2					Som F
WEL	GBR	2,5					As F
OEL	EU	2,5					
TLV-ACGIH		2,5					

Predicted no-effect concentration - PNEC

Normal value in fresh water	1,3	mg/l
Normal value of STP microorganisms	76	mg/l
Normal value for the terrestrial compartment	22	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	0,015 mg/kg bw/d	0,015	0,015 mg/kg bw/d				
Inhalation			VND	0,045 mg/m3	3,8 mg/m3			2,3 mg/m3
Skin					VND		VND	0,045

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.



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HAND PROTECTION

According to Legislative Decree 475/92 - UNI standards.

Upper limb protection. Gloves in:

- Teflon (thickness of 0.5 mm, permeability time > 71 hours)
- Rubber (thickness of 0.5 mm, permeability time > 6 hours)
- Neoprene (thickness of 0.4 mm, permeability time > 6 hours)
- Nitrile (thickness of 0.6 mm, permeability time > 6 hours)
- Nitrile + PVC (thickness of 0.2 mm, permeability time > 8 hours)
- PVC (thickness of 0.1 mm, permeability time > 8 hours)
- Viton (thickness of 0.1 mm, permeability time > 8 hours)
- Viton + Neoprene (0.2mm thickness, breakthrough time > 8 hours)

SKIN PROTECTION

Lower limb protection.

- Chemical resistant footwear

Body protection.

- Chemical resistant apron

FACE AND EYE PROTECTION

It is recommended to wear hooded visor or protective visor combined with airtight goggles (ref. Standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	pasty	
Colour	white	
Odour	pungent	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not applicable	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	0-1	
Kinematic viscosity	not available	
Solubility	partially soluble in water	



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Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	1,4 kg/l
Relative vapour density	not available
Particle characteristics	not applicable

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

Information not available

9.2.2. Other safety characteristics

Explosive properties	not explosive
Oxidising properties	not oxidizing

SECTION 10. Stability and reactivity**10.1. Reactivity**

Corrosive to metals.

10.2. Chemical stability

Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

The product can react violently with water.

10.4. Conditions to avoid

Avoid overheating. Prevent moisture or water from entering the containers.

10.5. Incompatible materials

Alkali and metals.

10.6. Hazardous decomposition products

By thermal decomposition or in the event of fire, gases and vapors that are potentially harmful to health (COx, NOx, HF) can be released.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the



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criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

Corrosive to the respiratory tract.

ATE (Inhalation - mists / powders) of the mixture:	Acute Tox. 3
ATE (Inhalation - vapours) of the mixture:	6,68 mg/l
ATE (Inhalation - gas) of the mixture:	Acute Tox. 3
ATE (Oral) of the mixture:	98,13 mg/kg
ATE (Dermal) of the mixture:	100,00 mg/kg

NITRIC ACID

LC50 (Inhalation vapours):	> 2,65 mg/l/4h Rat
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HYDROFLUORIC ACID

STA (Oral):	5,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Dermal):	5 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation mists/powders):	0,051 mg/l estimate from table 3.1.2 of Annex I of the CLP

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STA (Inhalation vapours):

(figure used for calculation of the acute toxicity estimate of the mixture)

0,501 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

AMMONIUM BIFLUORIDE

LD50 (Oral):

130 mg/kg Rat

SKIN CORROSION / IRRITATION

Corrosive for the skin

Classification according to the experimental Ph value

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE



Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

NITRIC ACID

LC50 - for Fish > 1000 mg/l/96h *Lepomis macrochirus* (pH effect)

HYDROFLUORIC ACID

LC50 - for Fish > 51 mg/l/96h *Onchorynchus mykiss*

EC50 - for Crustacea 26 mg/l/48h *Daphnia magna*

EC50 - for Algae / Aquatic Plants 81 mg/l/72h *Skeletonema costatum*

Chronic NOEC for Fish 4 mg/l 21 d

Chronic NOEC for Crustacea 8,9 mg/l *Daphnia magna*

Chronic NOEC for Algae / Aquatic Plants 50 mg/l *Skeletonema costatum*

AMMONIUM BIFLUORIDE

LC50 - for Fish 422 mg/l/96h *Onchorynkus mykiss*

EC50 - for Crustacea 26 mg/l/48h *Daphnia magna*

EC50 - for Algae / Aquatic Plants 81 mg/l/72h *Skeletonema costatum*

Chronic NOEC for Fish 4 mg/l *Onchorynkus mykiss*

Chronic NOEC for Algae / Aquatic Plants 8,9 mg/l *Daphnia magna*

12.2. Persistence and degradability

NITRIC ACID

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Solubility in water > 1000000 mg/l

Degradability: information not available

non pertinente per sostanza inorganica
HYDROFLUORIC ACID

Degradability: information not available

non pertinente per sostanza inorganica
AMMONIUM BIFLUORIDE

Solubility in water > 10000 mg/l

Degradability: information not available

non pertinente per sostanza inorganica

12.3. Bioaccumulative potential

NITRIC ACID

Partition coefficient: n-octanol/water < 3

AMMONIUM BIFLUORIDE

BCF 0,5

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

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

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

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DECAPINOX PASTA**SECTION 14. Transport information****14.1. UN number or ID number**

ADR / RID, IMDG, IATA: 2922

14.2. UN proper shipping name

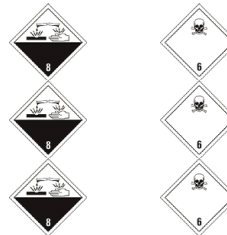
ADR / RID: CORROSIVE LIQUID, TOXIC, N.O.S. (NITRIC ACID, HYDROFLUORIC ACID)
IMDG: CORROSIVE LIQUID, TOXIC, N.O.S. (NITRIC ACID, HYDROFLUORIC ACID)
IATA: CORROSIVE LIQUID, TOXIC, N.O.S. (NITRIC ACID, HYDROFLUORIC ACID)

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8 (6.1)

IMDG: Class: 8 Label: 8 (6.1)

IATA: Class: 8 Label: 8 (6.1)

**14.4. Packing group**

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 86	Limited Quantities: 1 L	Tunnel restriction code: (E)
	Special provision: -		
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L	
		Maximum quantity: 30 L	Packaging instructions: 855
IATA:	Cargo:		Packaging instructions: 851
	Pass.:	Maximum quantity: 1 L	
	Special provision:	A3, A803	



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14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EU: H2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3

Contained substance

Point 75

Point 65 AMMONIUM BIFLUORIDE REACH
Reg.: 01-2119489180-38

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursorsRestricted explosives precursor

The acquisition, introduction, possession or use of that restricted explosives precursor by members of the general public is subject to a restriction as set out in Article 5(1) and (3). Restricted explosives precursors shall not be made available to, or introduced, possessed or used by members of the general public.

The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9.

All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None



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Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 3: Severe hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

NITRIC ACID

HYDROFLUORIC ACID

AMMONIUM BIFLUORIDE

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Ox. Liq. 2	Oxidising liquid, category 2
Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 1	Acute toxicity, category 1
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H310	Fatal in contact with skin.
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H301+H331	Toxic if swallowed or if inhaled.
H331	Toxic if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
EUH071	Corrosive to the respiratory tract.



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LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2019/521 (XII Atp. CLP)
 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**TRAFIMET GROUP SPA A SOCIO UNICO**

Revision nr. 2

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Page n. 18/18

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DECAPINOX PASTA**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

This document has been prepared by an SDS technician who has received appropriate training.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 07 / 08 / 09 / 11 / 12 / 15 / 16.