

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 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 **DECAPINOX PASTA**
Chemical name and synonym **UTI000059 / UTI000060 / UTI000641**
UFI : **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 **TRAFIMET GROUP SPA A SOCIO UNICO**
Full address **via del Lavoro, 8**
District and Country **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.

2.2. Label elements

DECAPINOX PASTA

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

The mixture contains 18,80%;3,00%;21,80% of components of unknown acute oral / inhalation / dermal toxicity.

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

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
GLYCEROL		
INDEX -	$70 \leq x < 90$	
EC 200-289-5		
CAS 56-81-5		
REACH Reg. 1907/2006/EC Annex V.9		
NITRIC ACID		
INDEX 007-004-00-1	$13,75 \leq x < 18,8$	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: $\geq 65\% - < 99\%$, Skin Corr. 1A H314: $\geq 20\%$, Skin Corr. 1B H314: $\geq 5\% - < 20\%$, Skin Corr. 1C H314: $\geq 5\% - < 20\%$
CAS 7697-37-2		LC50 Inhalation vapours: $>2,65 \text{ mg/l/4h}$
REACH Reg. 01-2119487297-23		
HYDROFLUORIC ACID		
INDEX 009-003-00-1	$5 \leq x < 7$	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: $\geq 1\% - < 7\%$, Skin Corr. 1C H314: $\geq 1\% - < 7\%$, Eye Dam. 1 H318: $\geq 1\%$, Eye Irrit. 2 H319: $\geq 0,1\% - < 1\%$
CAS 7664-39-3		ATE Oral: 5,001 mg/kg, ATE Dermal: 5 mg/kg, LC50 Inhalation vapours: 0,5001 mg/l/4h
REACH Reg. 01-2119458860-33		
AMMONIUM BIFLUORIDE		
INDEX 009-009-00-4	$2 \leq x < 3$	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: $\geq 0,1\% - < 1\%$, Eye Dam. 1 H318: $\geq 1\%$, Eye Irrit. 2 H319: $\geq 0,1\% - < 1\%$
CAS 1341-49-7		ATE Oral: 100 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 INFORMATIONS

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.

DECAPINOX PASTA

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.

Rescuer protection

Information not available

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

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

Means to have available in the workplace for specific and immediate treatment

Information not available

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

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:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
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 2023
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 21.12.2022, 14]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France Décret n° 2021-1849 du 28 décembre 2021
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με

DECAPINOX PASTA

HUN	Magyarország	την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία`» Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LTU	Lietuva	
		Jsakymas dėl lietuvis higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
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
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
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
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	
		Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
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 2023

NITRIC ACID					
Threshold Limit Value					
Type	Country	TWA/8h	STEL/15min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm
TLV	BGR			2,6	1
TLV	CZE	1	0,382	2,5	0,955
AGW	DEU			2,6	1
TLV	DNK	2,6	1		E
VLA	ESP			2,6	1
TLV	EST			2,6	1
VLEP	FRA			2,6	1
HTP	FIN	1,3	0,5	2,6	1
TLV	GRC			2,6	1
AK	HUN			2,6	
GVI/KGVI	HRV			2,6	1
VLEP	ITA			2,6	1
RD	LTU			2,6	1
RV	LVA	2	0,78	2,6	1

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DECAPINOX PASTA

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Page n. 8/19

Replaced revision:4 (Dated: 02/07/2024)

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

AMMONIUM BIFLUORIDE
Threshold Limit Value

Type	Country	TWA/8h	STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	2,5				
TLV	CZE	2,5		5		jako F
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
TLV	EST	2,5				
VLEP	FRA	2,5				
HTP	FIN	2,5				Som F
AK	HUN	2,5				SKIN F-ra számítva
GVI/KGVI	HRV	2,5				
VLEP	ITA	2,5				come F
RD	LTU	2,5				Kaip F
RV	LVA	2,5				Kā F
TLV	NOR	0,5				Som F
TGG	NLD			2		Als F
VLE	PRT	2,5				Como F
NDS/NDSch	POL	2				Na F
TLV	ROU	2,5				
NGV/KGV	SWE	2				Som F
NPEL	SVK	2,5				Ako F
MV	SVN	2,5				Kot 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

DECAPINOX PASTA

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.

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

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. 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).

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	
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.

GLYCEROL

It is decomposed for an increase in temperature: liberation of gas/corrosive/combustible gas/combustibles (acrolein). Co and CO₂ formation in case of combustion. It can polymerize for an increase in temperature. It reacts violently with (strong) oxidants: (increased) fire/explosion. Reacts with (certain) acids: (increased) fire/explosion risk

10.2. Chemical stability

Stable at normal ambient temperatures.

GLYCEROL

Hygroscopic

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 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

DECAPINOX PASTA

Corrosive to the respiratory tract.

ATE (Inhalation - vapours) of the mixture:	4,80 mg/l
ATE (Oral) of the mixture:	57,07 mg/kg
ATE (Dermal) of the mixture:	55,86 mg/kg

GLYCEROL

LD50 (Dermal):	> 2000 mg/kg CONIGLIO
LD50 (Oral):	> 20000 mg/kg RATTO
LC50 (Inhalation mists/powders):	2200 mg/l/4h 6h - RATTO

NITRIC ACID

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

ATE (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)
ATE (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)
LC50 (Inhalation vapours):	0,5001 mg/l/4h

AMMONIUM BIFLUORIDE

LD50 (Oral):	130 mg/kg Rat
ATE (Oral):	100 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)

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

GLYCEROL

LC50 - for Fish	54000 mg/l/96h <i>Salmo gairdneri</i>
EC50 - for Crustacea	1955 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	2900 mg/l/72h <i>Scenedesmus quadricauda</i>

NITRIC ACID

LC50 - for Fish	> 1000 mg/l/96h <i>Lepomis macrochirus</i> (pH effect)
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HYDROFLUORIC ACID

LC50 - for Fish	> 51 mg/l/96h <i>Onchorynchus mykiss</i>
EC50 - for Crustacea	26 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	81 mg/l/72h <i>Skeletonema costatum</i>
Chronic NOEC for Fish	4 mg/l 21 d
Chronic NOEC for Crustacea	8,9 mg/l <i>Daphnia magna</i>
Chronic NOEC for Algae / Aquatic Plants	50 mg/l <i>Skeletonema costatum</i>

AMMONIUM BIFLUORIDE

LC50 - for Fish	422 mg/l/96h <i>Onchorynkus mykiss</i>
EC50 - for Crustacea	26 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	81 mg/l/72h <i>Skeletonema costatum</i>
Chronic NOEC for Fish	4 mg/l <i>Onchorynkus mykiss</i>
Chronic NOEC for Algae / Aquatic Plants	8,9 mg/l <i>Daphnia magna</i>

12.2. Persistence and degradability

NITRIC ACID

Solubility in water	> 1000000 mg/l
Degradability: information not available	

DECAPINOX PASTA

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.

SECTION 14. Transport information

DECAPINOX PASTA

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 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: not marine pollutant
 IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 86	Limited Quantities: 1 L	Tunnel restriction code: (E)
	Special provision: 274		
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 30 L	Packaging instructions: 855
	Passengers:	Maximum quantity: 1 L	Packaging instructions: 851
	Special provision:	A3, A803	

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 NITRIC ACID REACH Reg.: 01-2119487297-23

Point 75 HYDROFLUORIC ACID REACH Reg.: 01-2119458860-33

Point 65-75 AMMONIUM BIFLUORIDE REACH Reg.: 01-2119489180-38

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

Restricted 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

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
Ox. Liq. 3	Oxidising liquid, category 3
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
Skin Corr. 1C	Skin corrosion, category 1C
Skin Corr. 1	Skin corrosion, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
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.
H319	Causes serious eye irritation.
H315	Causes skin irritation.

DECAPINOX PASTA

EUH071 Corrosive to the respiratory tract.

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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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
- vPvM: Very persistent and very mobile
- 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)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
24. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety

DECAPINOX PASTA

- 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

Note for the user:

The information contained in this sheet is based on the knowledge available to us on the date of the last version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document should not be interpreted as a guarantee of any specific property of the product.

Since the use of the product does not fall under the direct control of the Manufacturer, the user is obliged to observe, under his own responsibility, the laws and regulations in force regarding hygiene and safety. The manufacturer assumes no responsibility for improper use of the product.

It is the responsibility of the user to provide adequate training to the personnel involved in the use of chemical products.

This document was written by a skilled SDS technician who has received appropriate training.

CLASSIFICATION CALCULATION METHODS

Physical and chemical hazards: The classification of the product has been derived from the criteria established by the CLP Regulation Annex I Part 2. The methods of evaluation of the physical and chemical properties are reported in section 9.

Health hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 3, unless otherwise indicated in section 11.

Environmental hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 4, unless otherwise indicated in section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 11 / 16.