



MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 20/01/2020

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

1.1. Product identifier

Code: **F_57**
Product name: **ANTI-SCALE Vinegar**
UFI: **ERW2-X00U-X00K-UKE2**

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

Identified Uses	Industrial	Professional	Consumer
Descaler	-	✓	✓

Uses Advised Against

Do not use for uses other than those indicated

1.3. Details of the supplier of the safety data sheet

Name: **NEW FADOR S.r.l.**
Full address: **via Mario Calderara, 31**
District and Country: **25018 Montichiari (BS)**
Italia

Tel. **+39 030961 243**

www.newfador.it

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

info@newfador.it

1.4. Emergency telephone number

For urgent inquiries refer to

NEW FADOR S.r.l.

+39 030961 243

(08.30 - 17.30)

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:

Eye irritation, category 2

H319

Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms:



Signal word: **Warning**

Hazard statements:

H319

Causes serious eye irritation.



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Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P264	Wash your hands thoroughly after use.
P280	Wear eye protection / face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice / attention.

Ingredients Regulation (EC) No. 648/2004

Less than 5% Non-ionic surfactants

Perfumes, Limonene

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)
PHOSPHORIC ACID 75%		
INDEX 015-011-00-6	$3,8 \leq x < 4$	Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Classification note according to Annex VI to the CLP Regulation: B
EC 231-633-2		Skin Corr. 1B H314: $\geq 25\%$, Skin Irrit. 2 H315: $\geq 10\%$ - $< 25\%$, Eye Dam. 1 H318: $\geq 25\%$, Eye Irrit. 2 H319: $\geq 10\%$ - $< 25\%$ ATE Oral: 500 mg/kg
CAS 7664-38-2		
REACH Reg. 01-2119485924-24		
ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED		
INDEX -	$2 \leq x < 2,5$	Acute Tox. 4 H302, Eye Dam. 1 H318, Aquatic Chronic 3 H412 Eye Dam. 1 H318: $\geq 10\%$, Eye Irrit. 2 H319: $\geq 1\%$ - $< 10\%$ LD50 Oral: >300 mg/kg
EC 931-954-4		
CAS 160901-19-9		
acetic acid 80%		
INDEX 607-002-00-6	$1,1 \leq x < 1,3$	Flam. Liq. 3 H226, Skin Corr. 1A H314, Eye Dam. 1 H318,



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EC 200-580-7

Classification note according to Annex VI to the CLP Regulation: B

Skin Corr. 1A H314: $\geq 90\%$,
Skin Corr. 1B H314: $\geq 25\%$ - $< 90\%$,
Skin Corr. 1C H314: $\geq 25\%$ - $< 90\%$,
Skin Irrit. 2 H315: $\geq 10\%$ - $< 25\%$,
Eye Dam. 1 H318: $\geq 25\%$,
Eye Irrit. 2 H319: $\geq 10\%$ - $< 25\%$

CAS 64-19-7

REACH Reg. 01-2119475328-30

ETHYL ACETATE

INDEX 607-022-00-5

$0 < x < 0,05$

Flam. Liq. 2 H225,
Eye Irrit. 2 H319,
STOT SE 3 H336, EUH066

EC 205-500-4

CAS 141-78-6

REACH Reg. 01-2119475103-46

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

In case of doubt or in the presence of symptoms contact a doctor and show him this document. In case of more serious symptoms, call 118 to obtain immediate health rescue. Eyes: Remove, if present, the contact lenses if the situation allows you to perform the operation easily. Wash immediately and abundantly with water for at least 15 minutes, opening the eyelids well. Consult a doctor immediately. Leather: remove contaminated clothing. Wash immediately and abundantly with running water (and soap if possible). Consult a doctor. Avoid further contacts with contaminated clothing. Ingestion: do not induce vomiting if not expressly authorized by the doctor. Do not administer anything by oral way if the subject is unconscious. Consult a doctor immediately. Inhalation: bring the subject to the open air, far from the place of the accident. Consult a doctor immediately.

Rescuer protection

It is good practice for the rescuer who provides help to a person who has been exposed to a chemical substance or mixture to wear personal protective equipment. The nature of these protections depends on the hazard of the substance or mixture, the mode of exposure and the extent of contamination. In the absence of other more specific indications, it is recommended to use disposable gloves in case of possible contact with biological liquids. For the type of PPE suitable for the characteristics of the substance or mixture, refer to section 8.

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

In case of inhalation: irritation of the respiratory tract, cough. Inhalation of greater quantities can cause laryngospasm with lack of breath.

In case of contact with the skin: temporary skin irritation (redness, swelling, burning)

In case of contact with the eyes: from modest to strong irritation of the eyes (redness, swelling, burning, tearing)

In case of ingestion: ingestion can cause mouth irritation, throat, digestive system, diarrhea and vomiting. Vomiting
It can enter the lungs causing damage (suction)

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

In case of symptoms, both acute and delayed, consult a doctor.

In the event of an accident or malaise, consult a doctor immediately (if possible to show the instructions for use or the safety card).

Treatment: symptomatic treatment.

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

Running water for skin and eye washing.



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SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinction means. The extinction vehicles are the traditional ones: carbon dioxide, foam, dust and nebulized water. Non -suitable extinction means

None in particular.

5.2. Special hazards arising from the substance or mixture

DANGERS DUE TO EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products. Combustion can produce gases and vapors potentially harmful to health such as carbon dioxide, carbon monoxide and irritating fumes.

5.3. Advice for firefighters

General information. Cool the containers with water jets to avoid the decomposition of the product and the development of substances potentially dangerous for health. Always wear the equipment complete with fire protection. Collect the shutdown waters that must not be downloaded in the sewers. Dispose of the contaminated water used for the extinction and residue of the fire according to the current regulations.

EQUIPMENT

Normal clothing for the fight against fire, such as an open circuit compressed air car rescue (EN 137), full anti -fiamema (EN469), anti -fiamma gloves (EN 659) and boots for firefighters (I have A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For those who do not intervene directly

Block the loss if there is no danger. Wear adequate protection devices (including the individual protective equipment referred to in section 8 of the security data sheet) in order to prevent contaminations of the skin, eyes and personal clothing. These indications are valid for both the employees processes that for emergency interventions. Remove the unnecessary staff.

6.1.2. For those who intervene directly

Wear adequate protection devices (including the individual protective equipment referred to in section 8 of the security data sheet) in order to prevent contaminations of the skin, eyes and personal clothing. These indications are valid for both the employees processes that for emergency interventions.

6.2. Environmental precautions

Prevent the product from entering sewers, surface waters and groundwater. Retain contaminated wash water and discard it.

6.3. Methods and material for containment and cleaning up

Containment: Cover drains if necessary. Suck up the spilled product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material. Remediation: Provide sufficient ventilation of the area affected by the leak. Clean with plenty of water and retain the contaminated washing water and discard it. Disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections

Any information regarding individual protection and disposal is shown to sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling



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Manipulate the product after consulting all the other sections of this safety card. Avoid the dispersion of the product in the environment. Do not eat, nor drink, nor smoking during use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labeled containers. Store the containers away from any incompatible materials, checking section 10.

7.3. Specific end use(s)

Refer to the final uses identified in the subsection 1.2 of this form.

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.28 от 2 Април 2024г.)
CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 18. října 2023, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	WirkungDosisNOAELMAK-und BAT-Werte-Liste 2024 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe
DNK	Danmark	BEK nr 291 af 19/03/2024 (Historisk) Bekendtgørelse om grænseværdier for stoffer og materialer (kemiske agenser) i arbejdsmiljøet
ESP	España	Límites de exposición profesional para agentes químicos en España 2024
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret 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 την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία``»
HUN	Magyarország	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
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdi og grenseverdi for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdi), 21. 10. april 2024 kl. 13.55
NLD	Nederland	Regeling van de Minister van Sociale Zaken en Werkgelegenheid van 13 mei 2024, nr. 2024-0000092805, tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2022/431
PRT	Portugal	Decreto-Lei n.º 102/2024, de 4 de dezembro. Sumário: Transpõe para a ordem jurídica interna a Diretiva (UE) 2022/431, relativa à proteção dos trabalhadores contra riscos ligados à exposição a agentes cancerígenos ou mutagénicos e procede à quarta alteração
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 24 czerwca 2024 r. zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
SWE	Sverige	Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:14) om gränsvärden för luftvägsexponering i arbetsmiljön
SVK	Slovensko	121_2024 Z. z. Nariadenie vlády o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym, mutagénnym alebo reprodukčne toxickým faktorom pri práci
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti rakotvornim, mutagenim ali reprotoksičnim snovem pri delu. Ljubljana, četrtek 4. 4. 2024
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.
	ACGIH	ACGIH 2025

PHOSPHORIC ACID 75%



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Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	1		2		
TLV	CZE	1		2		
AGW	DEU	2		4		INHAL
MAK	DEU	2		4		INHAL
TLV	DNK	1				
VLA	ESP	1		2		
VLEP	FRA	1	0,2	2	0,5	
HTP	FIN	1		2		
TLV	GRC	1		3		
AK	HUN	1		2		
GVI/KGVI	HRV	1		2		
VLEP	ITA	1		2		
TLV	NOR	1				
TGG	NLD	1		2		
VLE	PRT	1		2		
NDS/NDSch	POL	1		2		
NGV/KGV	SWE	1		3		
NPEL	SVK	1		2		
WEL	GBR	1		2		
OEL	EU	1		2		
ACGIH		1		3		

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Chronic systemic	Effects on workers		
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local
Oral				0,1 mg/kg bw/d			
Inhalation			0,36 mg/m3	4,57 mg/m3		1 mg/m3	10,7 mg/m3

acetic acid 80%

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	25		37		
TLV	CZE	25		35		
AGW	DEU	25	10	50	20	
MAK	DEU	25	10	50	20	
TLV	DNK	25	10			
VLA	ESP	25	10	37	15	
VLEP	FRA			25	10	
HTP	FIN	13	5	25	10	
TLV	GRC	25	10	37	15	



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AK	HUN	25		25	
GVI/KGVI	HRV	25	10		
TLV	NOR	25	10		
VLE	PRT	25	10		
NDS/NDSch	POL	15		30	
NGV/KGV	SWE	13	5	25	10
NPEL	SVK	25	10		
MV	SVN	25	10		
OEL	EU	25	10	50	20
ACGIH		25	10	37	15

Predicted no-effect concentration - PNEC		
Normal value in fresh water	3,058	mg/l
Normal value in marine water	0,306	mg/l
Normal value for fresh water sediment	11,36	mg/kg
Normal value for marine water sediment	1,136	mg/kg
Normal value for water, intermittent release	30,58	mg/l
Normal value of STP microorganisms	85	mg/l
Normal value for the terrestrial compartment	0,47	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
Inhalation	25 mg/m3		25 mg/m3		25 mg/m3		25 mg/m3	

ETHYL ACETATE Threshold Limit Value

Type	Country	TWA/8h	STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	
TLV	BGR	800			
TLV	CZE	700		900	
AGW	DEU	1500	400	3000	800
MAK	DEU	1500	400	3000	800
TLV	DNK	540	150		
VLA	ESP	1460	400		
VLEP	FRA	1400	400		
HTP	FIN	1100	300	1800	500
TLV	GRC	1400	400		
AK	HUN	1400		1400	
GVI/KGVI	HRV		200		400
TLV	NOR	550	150		
TGG	NLD	550		1100	
NDS/NDSch	POL	200		600	
NGV/KGV	SWE	500	150	1100	300
NPEL	SVK	1500	400	3000	



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WEL	GBR		200		400
OEL	EU	734	200	1468	400
ACGIH		1441	400		

Predicted no-effect concentration - PNEC		
Normal value in fresh water		0,24 mg/l
Normal value in marine water		0,024 mg/l
Normal value for fresh water sediment		1,15 mg/kg/d
Normal value for marine water sediment		0,115 mg/kg/d
Normal value for fresh water, intermittent release		1,65 mg/l
Normal value of STP microorganisms		650 mg/l
Normal value for the food chain (secondary poisoning)		200 mg/kg
Normal value for the terrestrial compartment		0,148 mg/kg/d

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				4,5 mg/kg bw/d				
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
Skin				37 mg/kg bw/d				63 mg/kg bw/d

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

Generic hygiene practice at work involves certain measures (for example, shower and change of clothes at the end of the work shift) in order to avoid Any type of third party contamination and appropriate cleaning practices (i.e. regular cleaning with adequate cleaning devices), do not eat and smoke in the workplace. In general, inhalation and ingestion must be avoided. Unless different indications, shoes and work clothing must be worn certificates. Contaminated work clothing must not be brought out of the workplace. Ensure good general ventilation in the place of and effective local aspiration or other technical equipment in order to maintain levels in the air below the exposure limit values. In the absence of adequate ventilation, automatic indicators and warnings to report the achievement of the concentrations or dangerous conditions. If this is not possible, frequent checks and measurements must be performed.

For the choice of personal protective equipment, ask for advice from their DPI suppliers. Individual protection devices must report the EC marking certifying their compliance with current regulations. Provide an emergency shower with face and eye wash station.

HANDS PROTECTION

Protect your hands with category III work gloves (Report EN 374). Recommended materials: nitrilic rubber, pvc, butyl rubber, neoprene. Protection class: 6 (permeation time greater than 480 minutes according to the EN 374 standard). Speaking of the recommended material: ≥ 0.4 mm. During the identification phase of the relevant material and the relative thickness to be used, it is highly recommended to compare directly with the DPI producer to evaluate the actual protection on the basis of use and the duration of use. For the definitive choice of the material of work gloves, compatibility, degradation, breakage and permeation must be considered. In the case of preparing, the resistance of work gloves to chemical agents must be verified before use as they are not predictable. Gloves

They have a wear time that depends on the duration and the use mode.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344/ISO 13034). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).



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RESPIRATORY PROTECTION

Normally no respiratory protective device is required. In case of insufficient ventilation, exceeding the limit values in the workplace, excessive olfactory disturbance or in the presence of dust, aerosols, mists and smoke, it is necessary to use a respiratory protection mask independent of ambient air or a respiratory protection mask with filter or combined filters which must be chosen according to the EN 141 standard.

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	liquid	Temperature: 20 °C
Colour	colourless	Temperature: 20 °C
Odour	characteristic	Method: internal
Melting point / freezing point	0 °C	Method: literature data Substance: WATER
Initial boiling point	100 °C	Method: literature data Substance: WATER Initial boiling point: 100 °C
Flammability	not available	Reason for missing data: The substance/mixture is not flammable
Lower explosive limit	not available	Reason for missing data: This property is not relevant to the safety and classification of this product.
Upper explosive limit	not available	Reason for missing data: This property is not relevant to the safety and classification of this product.
Flash point	not available	Reason for missing data: The substance/mixture is not flammable
Auto-ignition temperature	not available	Reason for missing data: This property is not relevant to the safety and classification of this product.
Decomposition temperature	not available	Reason for missing data: It only applies to authoritative substances and mixtures, organic peroxides and other substances and mixtures that they can decompose
pH	2,50 ± 0,40	Method: internal method Temperature: 20 °C
Kinematic viscosity	70 ± 20 mm ² /sec	Method: internal Temperature: 20 °C
Solubility	soluble in water	Method: internal Temperature: 20 °C
Partition coefficient: n-octanol/water	not available	Reason for missing data: does not apply to inorganic and ionic liquids and, as a rule, it does not apply to blends
Vapour pressure	0,02 Atm	Method: datum of literature Substance: WATER Vapour pressure: 17,5 mmHg Temperature: 20 °C
Density and/or relative density	1,028	Method: internal Temperature: 20 °C
Relative vapour density	0,0006 kg/dm ³	Method: Literature data Substance: WATER



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Temperature: 20 °C

Particle characteristics

Median equivalent diameter

Remark: It only applies to solids

Size distribution

Remark: It only applies to solids

Dustiness

Remark: It only applies to solids

Specific surface area

Remark: It only applies to solids

Shape

Remark: It only applies to solids

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Acid/alkaline reserve not available

Remark: Tests on the buffer capacity of the substance/mixture was not performed.

Miscibility not available

Remark: See section 9.1 Solubility

Explosive properties not available

Reason for missing data: Absent chemical groups associated with explosive properties in accordance with the provisions of Annex I, Part 2, chap. 2.1.4.3 of Reg. (EC) 1272/2008 - CLP

Oxidising properties not available

Reason for missing data: Absent requirements related to the presence of atoms or chemical bonds associated with oxidizing properties in the molecules of the components according to Annex I, Part 2, 2.13.4 Reg. (CE) 1272/2008

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular reaction dangers with other substances in normal conditions of use.

PHOSPHORIC ACID 75%

Decomposes at temperatures above 200°C/392°F.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

In normal use and storage conditions, no dangerous reactions are predictable.

PHOSPHORIC ACID 75%

Risk of explosion on contact with: nitromethane. May react dangerously with: alkalis, sodium borohydride.



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ACETIC ACID 80%

Risk of explosion on contact with: chromium (VI) oxide, potassium permanganate, sodium peroxide, perchloric acid, phosphorus chloride, hydrogen peroxide. May react dangerously with: alcohols, bromine pentafluoride, chlorosulphuric acid, dichromate-sulphuric acid, ethane diamine, ethylene glycol, potassium hydroxide, strong bases, sodium hydroxide, strong oxidising agents, nitric acid, ammonium nitrate, potassium tert-butoxide, oleum. Forms explosive mixtures with: air.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

10.4. Conditions to avoid

None in particular. However, to follow the usual caution towards chemicals.

ACETIC ACID 80%

Avoid exposure to: sources of heat, naked flames.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

10.5. Incompatible materials

Strong alkalis, oxidizing agents. Don't mix with other chemicals.

PHOSPHORIC ACID 75%

Incompatible with: metals, strong alkalis, aldehydes, organic sulphides, peroxides.

ACETIC ACID 80%

Incompatible with: carbonates, hydroxides, phosphates, oxidising substances, bases.

ETHYL ACETATE

Incompatible with: acids, bases, strong oxidants, aluminium, nitrates, chlorosulphuric acid. Incompatible materials: plastic materials.

10.6. Hazardous decomposition products

For thermal decomposition or in the event of a fire you can free gases and vapors potentially harmful to health as carbon dioxide, carbon monoxide and irritating fumes.

PHOSPHORIC ACID 75%

May develop: phosphoryl oxides.

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 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

The mixture as such has not been subjected to specific tests, therefore no experimental evaluations are available; please refer to the information in this subsection.

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

No data available.



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Information on likely routes of exposure

The likely routes of exposure depend on the use of the mixture. Usually dermal exposure is the most likely, rarely inhalation and oral. For the effects, please refer to the other subsections in this section and to section 4 of this sheet.

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

The mixture as such has not been subjected to specific tests, therefore no experimental evaluations are available; please refer to the other subsections in this section and to section 4 of this sheet.

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

Rat; Oral; 2 years

NOAEL: 50 mg/kg (based on body weight and day)

Target organs: Heart, Liver, Kidney

Symptoms: limited increase in body weight, Increase in relative organ weights. group observation. (value of literature)

Interactive effects

Under normal conditions of use no interactive effects are currently expected.

ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: >2000 mg/kg

ATE (Dermal) of the mixture: Not classified (no significant component)

PHOSPHORIC ACID 75%

LD50 (Dermal): > 1260 mg/kg bw rabbit
at the concentration of 85%

LD50 (Oral): 2600 mg/kg bw Rat

ATE (Oral): 500 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 mists/powders): 61 mg/m³ Guinea pig for 1 h

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

LD50 (Dermal): > 2000 mg/kg rabbit

LD50 (Oral): > 300 mg/kg rat

acetic acid 80%

LD50 (Dermal): 1060 mg/kg Rabbit

LD50 (Oral): 3310 mg/kg Rat

LC50 (Inhalation vapours): 11,4 mg/l/4h Rat

ETHYL ACETATE

LD50 (Dermal): > 20000 mg/kg rabbit

LD50 (Oral): 4934 mg/kg rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

On rabbits: No skin irritation

Own test values/bibliographic values

group observation. Based on available data, the classification criteria are not met.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

On rabbit: Irreversible effects on the eyes

Own test values/bibliographic values

group observation. Causes serious eye damage.

group observation. Substance to be tested: Dilution, 10%. Causes serious eye irritation.



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RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

Maximization Test Guinea pig: non-sensitizing. group observation. (value of literature)

Based on available data, the classification criteria are not met

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

Genotoxicity in vitro. In vitro assays did not reveal mutagenic effects. group observation

Own test values/bibliographic values. Genotoxicity in vivo. In vivo tests did not reveal mutagenic effects. group observation. (value of literature)

Not classifiable based on available information.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

The substance has proven to be non-genotoxic, therefore carcinogenic potential should not be expected. group observation. (value of literature)

Not classifiable based on available information.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

Not classifiable based on available information.

Adverse effects on sexual function and fertility

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

Tests on animals revealed no effects on fertility. group observation. (value of literature)

Adverse effects on development of the offspring

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

It did not show teratogenic effects in animal experiments. group observation. (value of literature)

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

The substance or mixture is not classified as target organ toxicant, single exposure.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

La sostanza o miscela non è classificata come intossicante di un organo bersaglio specifico, per esposizione ripetuta.

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

Not classifiable based on available information.

11.2. Information on other hazards



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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

PHOSPHORIC ACID 75%

EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna, freshwater
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Desmodesmus subspicatus, freshwater
Chronic NOEC for Crustacea	56 mg/l Daphnia magna, freshwater
Chronic NOEC for Algae / Aquatic Plants	100 mg/l Desmodesmus subspicatus, freshwater

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

EC50 - for Algae / Aquatic Plants	> 1 mg/l/72h Desmodesmus subspicatus
EC10 for Crustacea	> 0,1 mg/l Daphnia magna

acetic acid 80%

LC50 - for Fish	> 1000 mg/l/96h
EC50 - for Crustacea	> 300,82 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h

ETHYL ACETATE

LC50 - for Fish	230 mg/l/96h Pimephales promelas
EC50 - for Crustacea	> 590 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	3300 mg/l/72h Scenedesmus subspicatus
Chronic NOEC for Fish	6,9 mg/l Pimephales promelas
Chronic NOEC for Crustacea	2,4 mg/l Daphnia magna

12.2. Persistence and degradability

PHOSPHORIC ACID 75%

Rapidly degradable

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

Rapidly degradable

acetic acid 80%

Solubility in water > 10000 mg/l

Rapidly degradable

ETHYL ACETATE



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Rapidly degradable

12.3. Bioaccumulative potential

acetic acid 80%

Partition coefficient: n-octanol/water -0,17

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 Log Kow

BCF 30

12.4. Mobility in soil

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

Partition coefficient: soil/water 3,69

acetic acid 80%

Partition coefficient: soil/water 1,153

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

Before disposal, it is always recommended to classify waste according to applicable national legislation.

Indicatively, the codes of the European waste list can be: 20 01 29* - detergents containing dangerous substances

15 01 10* - packaging containing residues of dangerous substances or contaminated by such substances

The release of waste in the sewer is strongly not recommended. The disposal of this product, solutions and any by-product must be carried out by always certifying the indications of the law on the protection of the environment and on the disposal of waste and the requirements of each relevant local authority.

Do not get rid of the product and the container except with the necessary precautions. Empty containers can contain product residues. Avoid the dispersion and outflow of material possibly spilled and the contact with soil, waterways, exhausts and sewers.

Directive 2008/98/EC (waste)

For the disposal of waste from this material, the hazard characteristics shall be assessed in accordance with Directive 2008/98/EC. Any transboundary shipment must comply with Regulation (EU) 2024/1157.



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SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

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: None

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

Product

Point 3 - 40

Contained substance

Point	75	PHOSPHORIC ACID 75% REACH Reg.: 01-2119485924-24
Point	75	linalool REACH Reg.: 01-2119474016-42
Point	75	acetic acid 80% REACH Reg.: 01-2119475328-30
Point	75	(R)-P-MENTHA-1,8-DIENE REACH Reg.: 01-2119529223-47

Notification Art. 45 CLP

The mixture may not have been notified in all EU Member States. In the event of resale in a country other than the one in which it was purchased, contact the supplier to verify any applicable obligations.



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Regulation (EU) 2024/590 - Ozone-depleting substances

None

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

not applicable

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

Regulation (EU) 2019/1021 - on persistent organic pollutants

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.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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

WGK 1: Low hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1B	Skin corrosion, category 1B



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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
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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



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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)
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22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
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24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
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- The Merck Index. - 10th Edition
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- 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

- ECHA CHEM website (ECHA Chemicals Database)

Note for the user:

The information contained in this sheet is based on the knowledge available to us at the date of the latest 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 our direct control, it is the user's obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. We do not assume responsibility for improper use.

Provide adequate training to personnel responsible for using chemical products.

CLASSIFICATION CALCULATION METHODS

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

Health hazards: Product classification 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 in Annex I of CLP Part 4, unless otherwise indicated in section 12.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 15 / 16.