

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

Code: 012A290959
Product name: FM 41 ANTICALCARE
UFI : 20C1-E0XE-9004-466K

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

Intended use: Hard surface descaling detergent

Identified Uses	Industrial	Professional	Consumer
Hard surface descaling detergent	-	✓	✓
Uses Advised Against			
Do not use for purposes other than those indicated			

1.3. Details of the supplier of the safety data sheet

Name: ALLEGRINI S.P.A.
Full address: Vicolo Salvo D'Acquisto, 2
District and Country: 24050 Grassobbio (BG) Italy
Tel.: +39 035 4242111
Fax: +39 035 526588
e-mail address of the competent person responsible for the Safety Data Sheet: msds@allegrini.com

1.4. Emergency telephone number

For urgent inquiries refer to: Allegrini SpA : Tel. +39 035 4242111 Mon - Fri 8.00 - 17.00 GMT +1

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:

Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.

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:

ALLEGRINI S.P.A. 012A290959 - FM 41 ANTICALCARE		Revision no.2 Revision date 19/03/2024 Printed on 19/03/2024 Page no. 2 / 16 Replaces revision:1 (Revision date 27/02/2023) EN																																																									
SECTION 2. Hazards identification ... / >>																																																											
H318 H315 EUH208 Causes serious eye damage. Causes skin irritation. Contains: Hexyl cinnamal May produce an allergic reaction.																																																											
Precautionary statements: P102 P101 P305+P351+P338 P280 P310 P264 Keep out of reach of children. If medical advice is needed, have product container or label at hand. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear protective gloves / eye protection / face protection. Immediately call a POISON CENTER/doctor. Wash your hands thoroughly after use.																																																											
Contains: Alcohols, C12-15, branched and linear, ethoxylated 1-Heptanol, 2-propyl-, 7EO Sodium hydroxide																																																											
Ingredients (Regulation 648/2004) Less than 5% Phosphonates, Non-ionic surfactants Perfumes Alpha-Isomethyl Ionone, Benzyl Benzoate, Coumarin, Hexyl Cinnamaldehyde, Limonene, Hexyl Cinnamal																																																											
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:																																																											
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SECTION 3. Composition/information on ingredients ... / >>

Benzyl benzoate

INDEX 607-085-00-9 0,4 ≤ x < 0,45
EC 204-402-9
CAS 120-51-4
REACH Reg. 01-2119976371-33

Acute Tox. 4 H302, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
LD50 Oral: 2000 mg/kg

Hexyl cinnamal

INDEX 0,2 ≤ x < 0,25
EC 202-983-3
CAS 101-86-0
REACH Reg. 01-2119533092-50

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

Ethyl acetate

INDEX 607-022-00-5 0 < x < 0,05
EC 205-500-4
CAS 141-78-6
REACH Reg. 01-2119475103-46

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

Isopentyl acetate

INDEX 607-130-00-2 0 < x < 0,05
EC 204-662-3
CAS 123-92-2
REACH Reg. 01-2119548408-32

Flam. Liq. 3 H226, EUH066

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 severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

Immediately call a POISON CENTER/doctor.

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

Running water for skin and eye wash.

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

SECTION 5. Firefighting measures ... / >>

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.

7.3. Specific end use(s)

Information not available

ALLEGRI S.P.A.		Revision no.2 Revision date 19/03/2024 Printed on 19/03/2024 Page no. 5 / 16 Replaces revision:1 (Revision date 27/02/2023)	EN
012A290959 - FM 41 ANTICALCARE			
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	
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 töökeskonna keemiliste ohutegurite piirnormid [RT I, 21.12.2022, 14]	
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021	
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 μεταλλαξιγόνους 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 opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)	
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. §)	
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)	
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	

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SECTION 8. Exposure controls/personal protection ... / >>

Ethyl acetate						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	1500	400	3000	800	
VLA	ESP	1460	400			
VLEP	FRA	1400	400			
WEL	GBR		200		400	
OEL	EU	734	200	1468	400	
TLV-ACGIH			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
Normal value for marine water sediment	0,115	mg/kg
Normal value for 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

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/d				
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1478 mg/m3	1478 mg/m3	734 mg/m3	734 mg/m3
Skin				37 mg/kg/d				63 mg/kg/d

Isopentyl acetate						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	270	50	540	100	
TLV-ACGIH			50		100	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,011	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	0,335	mg/kg
Normal value for marine water sediment	0,0335	mg/kg
Normal value of STP microorganisms	30	mg/l
Normal value for the terrestrial compartment	0,06	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				1,47 mg/kg bw/d				
Inhalation				5,1 mg/m3				20,8 mg/m3
Skin				1,47 mg/kg bw/d				2,95 mg/kg bw/d

SECTION 8. Exposure controls/personal protection ... / >>

Benzyl benzoate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00322	mg/l
Normal value in marine water	0,00032	mg/l
	2	
Normal value for fresh water sediment	2,043	mg/kg
Normal value for marine water sediment	0,204	mg/kg
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,405	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,42 mg/kg bw/d				
Inhalation		12,4 mg/m3		2,48 mg/m3		70,5 mg/m3	70,5	14,1 mg/m3
Skin				1,42 mg/kg bw/d				4 mg/kg bw/d

Hexyl cinnamal

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00126	mg/l
Normal value in marine water	0,00012	mg/l
	6	
Normal value for fresh water sediment	3,2	mg/kg
Normal value for marine water sediment	0,064	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	9,51	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,056 mg/kg bw/d				
Inhalation	4,71 mg/m3			0,019 mg/m3	6,28 mg/m3			0,078 mg/m3
Skin	0,0787 mg/cm2		0,0787 mg/cm2	9,11 mg/kg/d			0,525 mg/cm2	18,2 mg/kg/d

Sodium cumenesulphonate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,23	mg/l
Normal value of STP microorganisms	100	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				3,8 mg/kg bw/d				
Inhalation				13,2 mg/m3				53,6 mg/m3
Skin				3,8 mg/m3				7,6 mg/kg bw/d

SECTION 8. Exposure controls/personal protection ... / >>

Sodium hydroxide								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	2						
TLV	CZE	1		2				
VLA	ESP			2				
TLV	EST	1		2 (C)				
VLEP	FRA	2						
TLV	GRC	2		2				
AK	HUN	1		2				
GVI/KGVI	HRV			2				
RV	LVA	0,5						
NDS/NDSch	POL	0,5		1				
NGV/KGV	SWE	1		2		INHAL		
NPEL	SVK	2						
MV	SVN	2		2		INHAL		
WEL	GBR			2				
TLV-ACGIH				2 (C)				
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers			Effects on workers				
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation			1				1	
			mg/m3				mg/m3	

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
Protect hands with category III work gloves.
The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

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

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

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 A 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	liquid	
Colour	red	

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SECTION 9. Physical and chemical properties ... / >>

Odour	characteristic	
Melting point / freezing point	0 °C	
Initial boiling point	100 °C	
Flammability	not flammable	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	3,2-3,6	
Kinematic viscosity	not available	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,065-1,095 g/cm3	
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

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

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

Sodium hydroxide

Exothermic reaction with water. Reaction with acids and alkaline earth metals. Reacts with aluminum or its alloys in the presence of water to form hydrogen.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

Sodium hydroxide

Avoid exposure to: air,moisture,sources of heat.

10.5. Incompatible materials

Ethyl acetate

Keep away from: oxidising agents,amines,strong acids,peroxides.

Sodium hydroxide

Incompatible with: strong acids,ammonia,zinc,lead,aluminium,water,flammable liquids.

Aluminum and its alloys.

10.6. Hazardous decomposition products

Ethyl acetate

Due to thermal decomposition or in the event of fire, gases and vapors potentially harmful to health 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

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)

Ethyl acetate	
LD50 (Dermal):	> 20000 mg/kg Rabbit
LD50 (Oral):	> 5000 mg/kg Rabbit
LC50 (Inhalation vapours):	> 100 mg/l/4h

Isopentyl acetate	
LD50 (Dermal):	> 5 mg/kg Rabbit
LD50 (Oral):	16600 mg/kg Rat

Alcohols, C12-15, branched and linear, ethoxylated	
LD50 (Oral):	> 300 mg/kg Rat

Benzyl benzoate	
LD50 (Oral):	2000 mg/kg rat

Hexyl cinnamal	
LD50 (Dermal):	> 3000 mg/kg Rabbit
LD50 (Oral):	3100 mg/kg Rat

Sodium cumenesulphonate	
LD50 (Dermal):	2000 mg/kg Rabbit
LD50 (Oral):	7000 mg/kg Rat

1-Heptanol, 2-propyl-, 7EO	
LD50 (Oral):	> 300 mg/kg Rat

Sodium hydroxide	
LD50 (Oral):	> 2000 mg/kg rat

Ethyl acetate	
LC100 (inhalation): 22.5 ppm (6h) (Rat)	

SKIN CORROSION / IRRITATION

Causes skin irritation

SECTION 11. Toxicological information ... / >>

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

Hexyl cinnamal

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

Adverse effects on development of the offspring

Ethyl acetate

NOEL: 26400 mg/kg/d (Rat); NOAEC: 73300 mg/m3 (Rat)

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Route of exposure

Hexyl cinnamal

Oral NOAEL: 100 mg/kg rat

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Sodium cumenesulphonate

Oral NOAEL: > 763 mg/kg (Rat)

Route of exposure

Ethyl acetate

NOAEL (oral): 900 mg/kg/d (90d) (Rat); NOEC (inhalation): 1.28 mg/l (90d) (Rat)

Hexyl cinnamal

Oral NOAEL: 150 mg/kg bw/d rat (14d)

Dermal LOAEL: 125 mg/kg bw/d rabbit (90d)

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

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SECTION 12. Ecological information ... / >>

Ethyl acetate
EC50 (daphnia): 3090 mg/l (24h) (Daphnia magna)

Sodium cumenesulphonate
EC50 algae: > 230 mg/l (96h)

1-Heptanol, 2-propyl-, 7EO
NOEC fish: > 1 mg/l

Ethyl acetate	
LC50 - for Fish	230 mg/l/96h
EC50 - for Crustacea	165 mg/l/48h
Chronic NOEC for Crustacea	2,4 mg/l Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	> 100 mg/l

Isopentyl acetate	
LC50 - for Fish	11,1 mg/l/96h
EC50 - for Crustacea	26,3 mg/l/48h
EC50 - for Algae / Aquatic Plants	100 mg/l/72h

Alcohols, C12-15, branched and linear, ethoxylated	
Chronic NOEC for Fish	> 0,1 mg/l Carassius Auratus
Chronic NOEC for Crustacea	> 0,1 mg/l Daphnia
Chronic NOEC for Algae / Aquatic Plants	> 0,1 mg/l

Benzyl benzoate	
LC50 - for Fish	2,32 mg/l/96h
EC50 - for Crustacea	3,09 mg/l/48h

Hexyl cinnamal	
LC50 - for Fish	1,7 mg/l/96h

Sodium cumenesulphonate	
LC50 - for Fish	> 1000 mg/l/96h
EC50 - for Crustacea	> 1000 mg/l/48h

1-Heptanol, 2-propyl-, 7EO	
EC50 - for Crustacea	> 10 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 10 mg/l/72h Scenedesmus subspicatus

Sodium hydroxide	
LC50 - for Fish	> 35 mg/l/96h
EC50 - for Crustacea	40,4 mg/l/48h Daphnia

12.2. Persistence and degradability

Alcohols, C12-15, branched and linear, ethoxylated
Biodegradability: 70% (28d) (OECD 301F)

Hexyl cinnamal
Biodegradability: 97% (28d) (OECD 301F)

1-Heptanol, 2-propyl-, 7EO
Biodegradability: > 60% (28d) (OECD 301B)

Ethyl acetate	
Solubility in water	> 10000 mg/l
Rapidly degradable	

Isopentyl acetate
Rapidly degradable

Alcohols, C12-15, branched and linear, ethoxylated
Rapidly degradable

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SECTION 12. Ecological information ... / >>

Benzyl benzoate
Rapidly degradable

Hexyl cinnamal
Rapidly degradable

1-Heptanol, 2-propyl-, 7EO
Rapidly degradable

Sodium hydroxide
Rapidly degradable

12.3. Bioaccumulative potential

Hexyl cinnamal
Log Pow: 4,866

Ethyl acetate
Partition coefficient: n-octanol/water 0,68
BCF 30

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.

CONTAMINATED PACKAGING

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

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

SECTION 14. Transport information ... / >>

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

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

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.

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
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
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.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
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).

SECTION 16. Other information ... / >>

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
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- 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

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.

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:

02.