



MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 01/08/2018

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

1.1. Product identifier

Code: F_70
Product name: SGRASSATORE Limone
UFI: YVX2-H000-X001-F0YW

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

Identified Uses	Industrial	Professional	Consumer
Degreaser	-	✓	✓

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 words:

Warning

Hazard statements:

H319

Causes serious eye irritation.

Precautionary



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statements:

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P280

Wear protective gloves/ protective clothing / 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 648/2004)

Less than 5%

Cationic surfactants, Non-ionic surfactants

Perfumes

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)

**ALCOHOLS, C12-13, BRANCHED
AND LINEAR, ETHOXYLATED
INDEX -**

$3 \leq x < 3,5$

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

ETHANOLAMINE

INDEX 603-030-00-8

$0,15 \leq x < 0,2$

Acute Tox. 4 H302,
Acute Tox. 4 H312,
Acute Tox. 4 H332,
Skin Corr. 1B H314,
Eye Dam. 1 H318, STOT SE 3 H335,
Aquatic Chronic 3 H412
STOT SE 3 H335: $\geq 5\%$
LD50 Oral: >1089 mg/kg,
ATE Dermal: 1100 mg/kg,
ATE Inhalation vapours: 11 mg/l

EC 205-483-3

CAS 141-43-5

REACH Reg. 01-2119486455-28

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



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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

Protection of rescuers:

It is a good practice for the rescuer who lends help to a subject, who has been exposed to a chemical or a mixture, to wear individual protective equipment. The nature of these protections depends on the danger of the substance or mixture, the method of exposure and the extent of the 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.

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

PERICOLI DOVUTI ALL'ESPOSIZIONE IN CASO DI INCENDIO

Evitare di respirare i prodotti di combustione.

La combustione può produrre gas e vapori potenzialmente dannosi alla salute come anidride carbonica, monossido di carbonio e fumi irritanti.



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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.

ETHANOLAMINE

Avoid inhalation. Avoid contact with the skin, eyes and clothing.

6.2. Environmental precautions

Impedire che il prodotto penetri nelle fognature, nelle acque superficiali, nelle falde freatiche.

ETHANOLAMINE

Do not enter the sewers, surface waters and underground waters.

6.3. Methods and material for containment and cleaning up

Aspire the product leakage in suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.

Provide for sufficient ventilation of the place affected by the loss. The disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

ETHANOLAMINE

Large quantities: mechanically suck the product.

Residues: collect with suitable absorbent materials. Do not collect with sawdust or with others fuel substances.

Thoroughly clean with water and surfactive objects and contaminated floors, in compliance with the legislation current on the subject. Collect the waste separately in suitable, labeled and sealed containers.

Disposal in compliance with current legislation on the subject by landfill or authorized system treatment and thermotulation.

6.4. Reference to other sections

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



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SECTION 7. Handling and storage

7.1. Precautions for safe handling

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.

ETHANOLAMINE

Fire protection and anti -explosion:

The product is fuel. Predict measures against the formation of electrostatic charges - keep

Far from lecture sources - make an extinguishing available.

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.

ETHANOLAMINE

Stabilità allo stoccaggio: Temperatura di immagazzinaggio: < 40 °C

Possibile cambiamento di colore dopo un lungo magazzino.

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:

AUS	Österreich	Gesamte Rechtsvorschrift für Grenzwerteverordnung 2024, Fassung vom 12.12.2024
BEL	Belgique	Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail
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.)
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)
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
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööhutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid 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``»
HRV	Hrvatska	PRAVILNIK O IZMJENAMA I DOPUNAMA PRAVILNIKA O ZAŠTITI RADNIKA OD IZLOŽENOSTI OPASNIM KEMIČALIJAMA NA RADU, GRANIČNIM VRIJEDNOSTIMA IZLOŽENOSTI I BIOLOŠKIM GRANIČNIM VRIJEDNOSTIMA
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
IRL	Éire	2024 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) & the Safety, Health and Welfare at Work (Carcinogens, Mutagens and Reprotoxic Substances) Regulations (2024)
LUX	Luxembourg	Règlement grand-ducal du 17 mars 2021 ayant pour objet de modifier le règlement grand-ducal modifié du



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LTU	Lietuva
LVA	Latvija
NOR	Norge
NLD	Nederland
PRT	Portugal
POL	Polska
SWE	Sverige
SVN	Slovenija
GBR	United Kingdom
EU	OEL EU

14 novembre 2016 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de trava

Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo

Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" Oficiālā lāas publikācijas Nr.: 2024/65.2

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

Regeling van de Minister van Sociale Zaken en Werkgelegenheid van 13 mei2024, nr. 2024-0000092805, tot wijziging van deArbeidsomstandighedenregeling in verband met de implementatie vanRichtlijn 2022/431

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

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

Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:14) om gränsvärden för luftvägsexponering i arbetsmiljön

Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti rakotvornim, mutagenim ali reprotoksičnim snovem pri delu. Ljubljana, četrtek 4. 4. 2024

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

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.

ETHANOLAMINE

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
MAK	AUS	2,5	1	SKIN
VLEP	BEL	2,5	1	SKIN
TLV	BGR	8	15	
MAK	CHE	5	2	10
VME/VLE	CHE	5	2	10
TLV	CZE	2,5	7,5	SKIN
AGW	DEU	5,1	2	10,2
MAK	DEU	5,1	2	10,2
TLV	DNK	2,5	1	SKIN
VLA	ESP	2,5	1	7,5
TLV	EST	2,5	1	7,6
VLEP	FRA	2,5	1	7,6
HTP	FIN	2,5	1	7,6
TLV	GRC	2,5	1	7,6
GVI/KGVI	HRV	2,5	1	7,6
VLEP	ITA	2,5	1	7,6
OELV	IRL	2,5	1	7,6
VL	LUX	2,5	1	7,6
RD	LTU	8	3	15
RV	LVA	0,5	0,2	7,6
TLV	NOR	2,5	1	SKIN
TGG	NLD	2,5	7,6	SKIN
VLE	PRT	2,5	1	7,6
NDS/NDSch	POL	2,5	7,5	



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NGV/KGV	SWE	8	3	15	6	SKIN
MV	SVN	2,5	1			SKIN
WEL	GBR	2,5	1	7,6	3	SKIN
OEL	EU	2,5	1	7,6	3	SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,07	mg/l
Normal value in marine water	0,007	mg/l
Normal value for fresh water sediment	0,357	mg/kg
Normal value for marine water sediment	0,0357	mg/kg
Normal value for water, intermittent release	0,028	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	1,29	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				1,5 mg/kg/d				
Inhalation			0,18 mg/m3	0,18 mg/m3			0,51 mg/m3	0,51 mg/m3
Skin				1,5 mg/kg/d				3 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



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Wear category I 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

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 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	
Colour	yellow	Remark: Visual
Odour	characteristic	Method: olfactory
Odour threshold	not available	Reason for missing data: not determined
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: This property is not relevant to the safety and classification of this product.
pH	11.0 ± 0.4	Method: pHmeter
Kinematic viscosity	not available	Reason for missing data: not determined
Solubility	soluble in water	Method: internal
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
Density and/or relative density	1,002	Method: scaled scale and cylinder
Relative vapour density	not available	

Particle characteristics



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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

Miscibility not available

Explosive properties not available

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

Remark: See section 9.1 Solubility

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 dangers of reaction with other substances under normal conditions of use.

ETHANOLAMINE

No dangerous reaction if the prescriptions/indications for storage and manipulation are respected.

Metal corrosion: a corrosive effect of the metal is not to be foreseen. Aluminum steel

Flatable gases formation: flammable gases are not formed in the presence of water.

10.2. Chemical stability

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

ETHANOLAMINE

The product is stable if the prescriptions/indications for manipulation and storage are respected.

10.3. Possibility of hazardous reactions

Under normal conditions of use and storage, dangerous reactions are not foreseeable.



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ETHANOLAMINE

May react dangerously with: acrylonitrile, chloroepoxypropane, chlorosulphuric acid, hydrogen chloride, iron-sulphur compounds, acetic acid, acetic anhydride, mesityl oxide, nitric acid, sulphuric acid, strong acids, vinyl acetate, cellulose nitrate.

Reactions with oxidant agents. The reaction has decorated exothermic. Reactions with acids. Reactions with halogenate compounds. Reactions with acid chlorides. Incompatible with acid chlorides and acid anhydrides.

10.4. Conditions to avoid

None in particular. However, follow the usual precautions regarding chemical products.

ETHANOLAMINE

Avoid exposure to: air, sources of heat.

Avoid extreme temperatures. Refer to section 7 SDS

10.5. Incompatible materials

Strong acids, oxidizing agents.
Do not mix with other chemicals.

ETHANOLAMINE

Incompatible with: iron, strong acids, strong oxidants.

Subjects to avoid: oxidants, isocyanati, acid anhydrides, acids, acids, acids, substances that form them, copper alloys, sweet steel.

10.6. Hazardous decomposition products

Due to thermal decomposition or in the event of fire, gases and vapors potentially harmful to health such as carbon dioxide, carbon monoxide and irritating fumes can be released.

ETHANOLAMINE

May develop: nitric oxide, carbon oxides.

No dangerous decomposition product if you respect the prescriptions for the warehouse and manipulation.

Possible thermal decomposition products: carbon oxides, nitrogen oxides, nitrous gases.

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

No information is available on the mixture, but information available on the relevant substances is listed.

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

No data available.

ETHANOLAMINE

MEA applied topically penetrates the skin, is widely distributed and extensively metabolized in the body. One of the main sites for metabolism is the liver. Extensive metabolism was indicated by the incorporation of radiolabeled carbon into hepatic amino acids, proteins, and phospholipids. Urea and glycine were the major urinary metabolites of MEA.

Regarding a quantitative data for skin absorption, the results of in vivo studies are preferable to the results of in vitro studies. In the in vivo study (Klain, 1985) the potential absorbed dose amounted to approximately 75% after 24 hours of exposure. Since workers are not externally exposed for more than 8



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hours and assuming that a lower amount of substance was present in the skin (potentially absorbed amount) at t=8 hours compared to t=24 hours and that not the entire amount of substance present in the skin will eventually become systemically available, a correction factor of 2 will be used to derive the workers' dermal absorption value, i.e. $75/2 = 37.5\%$. A figure of 75% is proposed for consumers as the default exposure duration for consumers is 24 hours (note that this is a very conservative value for consumers as consumers will likely not be exposed for 24 hours per day).

ECHA CHEM 11/25

Information on likely routes of exposure

The likely routes of exposure depend on the use of the mixture.

Usually inhalation and cutaneous exposure are the most likely routes, rarely 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

No information is available on the mixture, but information available on the relevant substances is listed. For the effects, 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)

ETHANOLAMINE

Exposure of rats to the test substance for 28 days by inhalation caused concentration-related lesions in the larynx, trachea and lungs. No histopathological effects were observed in any organs other than the respiratory tract. The NOAEC for systemic toxicity is the highest tested concentration of 150 mg/m³. The NOAEC for local effects is the lowest tested concentration of 10 mg/m³. In the two-generation oral reproductive toxicity study with the test substance (HCl), the NOAEL for general systemic toxicity was set at 300 mg/kg body weight/day based on reduced food consumption and/or increased body weight, as well as organ weight changes unaccompanied by histopathological findings.

ECHA CHEM 11/25

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)

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

LD50 (Dermal):

> 2000 mg/kg rabbit

LD50 (Oral):

> 300 mg/kg rat

ETHANOLAMINE

LD50 (Dermal):

2504 mg/kg bw Rabbit; OECD 402

LD50 (Oral):

> 1089 mg/kg Rat, OECD 401

LC50 (Inhalation vapours):

> 1,3 mg/l air/6 h 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.

ETHANOLAMINE

Evaluation of the irritating effect: corrosive! Damages skin and eyes.



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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.

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

ETHANOLAMINE

Evaluation of the sensitizing effect:

Animal tests have not shown sensitizing action.

Experimental/calculated data:

Guinea Pig Maximation Test Porcellino d'Ondia: non -sensitizing (Oecd - Guideline 406)

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.

ETHANOLAMINE

Mutgenicity evaluation:

The substance did not prove to be mutagen on bacteria. No mutagenic effect was found in

Various experiments on cellular crops and mammals.

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.

ETHANOLAMINE

Carcinogenicity assessment: no available data.

REPRODUCTIVE TOXICITY



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Does not meet the classification criteria for this hazard class

ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

Not classifiable based on available information.

ETHANOLAMINE

Evaluation of toxicity for reproduction:

Animal experiments have not highlighted a decrease in fertility, at non -toxic doses for parents. The product has not been tested. The indications are derived from substances/products of composition or similar structure.

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)

ETHANOLAMINE

Evaluation of teratogenicity: animal tests have not highlighted fetal damage.

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.

ETHANOLAMINE

Single Stot evaluation: it can irritate the respiratory tract.

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.

ETHANOLAMINE

Assessment of toxicity following repeated administration:

After repeated administration, no specific organ toxicity of the substance.

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.

ETHANOLAMINE

No aspiration risk is expected.

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

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*

ETHANOLAMINE

LC50 - for Fish

> 100 mg/l/96h *Oryzias latipes*; OECD 203

EC50 - for Crustacea

27,04 mg/l/48h *Daphnia magna*; OECD 202

EC50 - for Algae / Aquatic Plants

0,7 mg/l/72h *Pseudokirchneriella subcapitata*; OECD 201

Chronic NOEC for Fish

1,24 mg/l *Oryzias latipes*; OECD 210

Chronic NOEC for Crustacea

0,85 mg/l *Daphnia magna*; OECD 211

12.2. Persistence and degradability

ALCOHOLS, C12-13, BRANCHED AND
LINEAR, ETHOXYLATED

Rapidly degradable

ETHANOLAMINE

Solubility in water

> 1000 g/l

Rapidly degradable

>90%; 21d; OECD 301A

12.3. Bioaccumulative potential

ETHANOLAMINE

Partition coefficient: n-octanol/water

-2,3 OECD 107

12.4. Mobility in soil

ALCOHOLS, C12-13, BRANCHED AND
LINEAR, ETHOXYLATED

Partition coefficient: soil/water

3,69

ETHANOLAMINE

Partition coefficient: soil/water

1,16

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%.



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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.

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



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14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: 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	TRISODIUM 8-HYDROXYPYRENE-1,3,6-TRISULPHONATE REACH Reg.: 01-2120115886-50
Point	75	ETHANOLAMINE REACH Reg.: 01-2119486455-28
Point	75	dipentene
Point	75	(R)-P-MENTHA-1,8-DIENE REACH Reg.: 01-2119529223-47
Point	75	Citral REACH Reg.: 01-2119462829-23

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.

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



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WGK 2: 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:

Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye 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
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

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



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- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
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 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
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- 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 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 15.