

Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

REMOVER PRO

Date of first edition: 4/20/2021

Safety Data Sheet dated 11/03/2026

version 5

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

1.1. Product identifier

Mixture identification:

Trade name: REMOVER PRO

Trade code: S100B0151 13

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

Recommended use: detergent

Uses advised against: All uses other than recommended ones

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112

Ireland Emergency medical information: (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Members of the public Number (8 am-10 pm): +353 (0)1 809 2166

Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

Malta In case of emergency call: +356 2395 2000 (24h)

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Eye Dam. 1 Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



Danger

Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P280 Wear protective gloves and eye 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.

P310 Immediately call a POISON CENTER.

P501 Dispose of contents/container in accordance with applicable regulations.

Contains

Alcohols, C12-15, branched and linear,
ethoxylated

Regulation (EC) nr 648/2004 (Detergents).

Product contents:

non-ionic surfactants 5-15%
phosphates < 5%

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration \geq 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: REMOVER PRO

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
\geq 10-<20 %	(2-methoxymethylethoxy)propanol	CAS:34590-94-8 EC:252-104-2	Substance with a Union workplace exposure limit.	01-2119450011-60
\geq 5-<10 %	Alcohols, C12-15, branched and linear, ethoxylated	CAS:106232-83-1	Acute Tox. 4, H302; Eye Dam. 1, H318; Aquatic Chronic 3, H412	

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Eye irritation

Eye damages

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
(2-methoxymethylethoxy) propanol CAS: 34590-94-8	ACGIH		Long Term: 50 ppm (8h) Liver & CNS eff
	NATIONAL	BELGIUM	Long Term: 308 mg/m ³ - 50 ppm D Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATIONAL	CROATIA	Long Term: 308 mg/m ³ - 50 ppm koža Source: 2000/39/EZ
	NATIONAL	CYPRUS	Long Term: 308 mg/m ³ - 50 ppm δέρμα Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021

NATIONAL	GERMANY	Long Term: 310 mg/m ³ - 50 ppm DFG, EU, 11, 1(I) Source: TRGS 900
NATIONAL	IRELAND	Long Term: 308 mg/m ³ - 50 ppm Sk, IOELV Source: 2021 Code of Practice
NATIONAL	ITALY	Long Term: 308 mg/m ³ - 50 ppm Cute Source: D.lgs. 81/2008, Allegato XXXVIII
NATIONAL	LATVIA	Long Term: 308 mg/m ³ - 50 ppm Āda Source: KN325P1
NATIONAL	LUXEMBOUR G	Long Term: 308 mg/m ³ - 50 ppm Peau Source: Mémorial A n.226 du 22 mars 2021
NATIONAL	MALTA	Long Term: 308 mg/m ³ - 50 ppm skin Source: S.L.424.24
NATIONAL	PORTUGAL	Long Term: 308 mg/m ³ - 50 ppm Cutânea Source: Decreto-Lei n.º 1/2021
NATIONAL	ROMANIA	Long Term: 308 mg/m ³ - 50 ppm P, Dir. 2000/39 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATIONAL	SLOVENIA	Long Term: 308 mg/m ³ - 50 ppm; Short Term: 308 mg/m ³ - 50 ppm K, EU1 Source: UL št. 72, 11. 5. 2021
NATIONAL	SPAIN	Long Term: 308 mg/m ³ - 50 ppm vía dérmica, VLI Source: LEP 2022
NATIONAL	AUSTRIA	Long Term: 307 mg/m ³ - 50 ppm; Short Term: Ceiling - 614 mg/m ³ - 100 ppm 5(Mow), 8x, MAK, H Source: GKV, BGBl. II Nr. 156/2021
NATIONAL	BULGARIA	Long Term: 308 mg/m ³ - 50 ppm Кожа Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
NATIONAL	CZECHIA	Long Term: 270 mg/m ³ ; Short Term: Ceiling - 550 mg/m ³ D Source: Nařízení vlády č. 361-2007 Sb
NATIONAL	DENMARK	Long Term: 309 mg/m ³ - 50 ppm EH Source: BEK nr 2203 af 29/11/2021
NATIONAL	ESTONIA	Long Term: 308 mg/m ³ - 50 ppm A Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
NATIONAL	FINLAND	Long Term: 310 mg/m ³ - 50 ppm iho Source: HTP-ARVOT 2020
NATIONAL	FRANCE	Long Term: 308 mg/m ³ - 50 ppm Risque de pénétration percutanée Source: INRS outil65, article R. 4412-149 du Code du travail
NATIONAL	GREECE	Long Term: 600 mg/m ³ - 100 ppm; Short Term: 900 mg/m ³ - 150 ppm Δ Source: ΦΕΚ 94/Α` 13.5.1999
NATIONAL	HUNGARY	Long Term: 308 mg/m ³ EU1, R Source: 5/2020. (II. 6.) ITM rendelet
NATIONAL	LITHUANIA	Long Term: 300 mg/m ³ - 50 ppm; Short Term: 450 mg/m ³ - 75 ppm O Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

NATIONAL	NETHERLAND S	Long Term: 300 mg/m ³ Source: Arbeidsomstandighedenregeling - Lijst A
NATIONAL	NORWAY	Long Term: 300 mg/m ³ - 50 ppm H E Source: FOR-2021-06-28-2248
NATIONAL	POLAND	Long Term: 240 mg/m ³ ; Short Term: 480 mg/m ³ skóra Source: Dz.U. 2018 poz. 1286
NATIONAL	SLOVAKIA	Long Term: 308 mg/m ³ - 50 ppm K Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATIONAL	SWEDEN	Long Term: 300 mg/m ³ - 50 ppm; Short Term: 450 mg/m ³ - 75 ppm H, V Source: AFS 2021:3
SUVA	SWITZERLAND	Long Term: 300 mg/m ³ - 50 ppm; Short Term: 300 mg/m ³ - 50 ppm VR Yeux Nez / AW Auge Nase, NIOSH, La substance peut être présente sous forme de vapeur et d'aérosol en même temps / Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen Source: suva.ch/valeurs-limites
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 308 mg/m ³ - 50 ppm Sk Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU		Long Term: 308 mg/m ³ - 50 ppm (8h) Skin
2,2',2''-nitrilotriethanol CAS: 102-71-6	ACGIH	Long Term: 5 mg/m ³ (8h) Eye and skin irr
NATIONAL	BELGIUM	Long Term: 5 mg/m ³ Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
NATIONAL	GERMANY	Long Term: 1 mg/m ³ DFG, Y, E, 1 (I) Source: TRGS 900
NATIONAL	IRELAND	Long Term: 5 mg/m ³ Source: 2021 Code of Practice
NATIONAL	SPAIN	Long Term: 5 mg/m ³ Source: LEP 2022
NATIONAL	AUSTRIA	Long Term: 5 mg/m ³ - 0.8 ppm; Short Term: 10 mg/m ³ - 1.6 ppm 15(Miw), 4x, MAK, S, E Source: BGBl. II Nr. 156/2021
NATIONAL	CZECHIA	Long Term: 5 mg/m ³ ; Short Term: Ceiling - 10 mg/m ³ D, I Source: Nařízení vlády č. 361-2007 Sb
NATIONAL	DENMARK	Long Term: 3.1 mg/m ³ - 0.5 ppm Source: BEK nr 2203 af 29/11/2021
NATIONAL	ESTONIA	Long Term: 5 mg/m ³ ; Short Term: 10 mg/m ³ S Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
NATIONAL	FINLAND	Long Term: 5 mg/m ³ Source: HTP-ARVOT 2020
NATIONAL	LITHUANIA	Long Term: 5 mg/m ³ ; Short Term: 10 mg/m ³ J Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
NATIONAL	NORWAY	Long Term: 5 mg/m ³ Source: FOR-2021-06-28-2248
NATIONAL	SWEDEN	Long Term: 5 mg/m ³ - 0.8 ppm; Short Term: 10 mg/m ³ - 1.6 ppm H, V Source: AFS 2021:3

2,2'-iminodiethanol;
diethanolamine
CAS: 111-42-2

SUVA	SWITZERLAN D	Long Term: 5 mg/m ³ ; Short Term: 5 mg/m ³ TWA mg/m ³ : (i), SSC, VRS Peau Yeux / OAW Haut Auge, NIOSH Source: suva.ch/valeurs-limites
	ACGIH	Long Term: 1 mg/m ³ (8h) IFV, Skin, A3 - Liver and kidney dam
	NATIONAL AUSTRIA	Long Term: 2 mg/m ³ - 0.46 ppm; Short Term: 4 mg/m ³ - 0.92 ppm 15(Miw), 4x, MAK, H, Sh, Reaktion mit nitro- sierenden Agentien kann zur Bildung des kanzerogenen N- Nitrosodiethanol- amins führen. Source: GKV, BGBl. II Nr. 156/2021
	NATIONAL BULGARIA	Long Term: 10 mg/m ³ Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATIONAL CZECHIA	Long Term: 5 mg/m ³ ; Short Term: Ceiling - 10 mg/m ³ I Source: Nařízení vlády č. 361-2007 Sb
	NATIONAL DENMARK	Long Term: 2 mg/m ³ - 0.46 ppm H Source: BEK nr 2203 af 29/11/2021
	NATIONAL ESTONIA	Long Term: 5 mg/m ³ - 3 ppm; Short Term: 30 mg/m ³ - 6 ppm A Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATIONAL FINLAND	Long Term: 2 mg/m ³ - 0.46 ppm iho Source: HTP-ARVOT 2020
	NATIONAL FRANCE	Long Term: 15 mg/m ³ - 3 ppm Source: INRS outil65
	NATIONAL GREECE	Long Term: 15 mg/m ³ - 3 ppm Source: ΦΕΚ 94/Α` 13.5.1999
	NATIONAL LITHUANIA	Long Term: 15 mg/m ³ - 3 ppm; Short Term: 30 mg/m ³ - 6 ppm O Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATIONAL NORWAY	Long Term: 15 mg/m ³ - 3 ppm Source: FOR-2021-06-28-2248
	NATIONAL POLAND	Long Term: 9 mg/m ³ skóra Source: Dz.U. 2018 poz. 1286
	NATIONAL SWEDEN	Long Term: 15 mg/m ³ - 3 ppm; Short Term: 30 mg/m ³ - 6 ppm H, V Source: AFS 2021:3
SUVA	SWITZERLAN D	Long Term: 1 mg/m ³ ; Short Term: 1 mg/m ³ TWA mg/m ³ : (i), R/H, S, SSC, Rein VRS Foie / Niere OAW Leber, En présence d'agents nitrosants, il peut se former de la N-Nitrosodiéthanolamine cancérigène. La substance peut être présente sous forme de vapeur et d'aérosol en même temps. / Reaktion mit nitrosierenden Agentien kann zur Bildung des kanzerogenen N-Nitrosodiethanolamins führen. Der Stoff kann gleichzeitig als Aerosol und Dampf vorliegen. Source: suva.ch/valeurs-limites
	NATIONAL BELGIUM	Long Term: 1 mg/m ³ - 0.2 ppm D Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATIONAL CROATIA	Long Term: 15 mg/m ³ - 3 ppm koža Source: NN 1/2021
	NATIONAL GERMANY	Long Term: 0.5 mg/m ³ - 0.11 ppm AGS, H, Sh, Y, 11, 6, 1 (I) Source: TRGS 900
	NATIONAL IRELAND	Long Term: 1 mg/m ³ - 0.2 ppm OEL (8-hour reference period) mg/m ³ : IFV Source: 2021 Code of Practice
	NATIONAL SLOVENIA	Long Term: 0.5 mg/m ³ - 0.11 ppm; Short Term: 0.5 mg/m ³ - 0.11 ppm K, Y Source: UL št. 72, 11. 5. 2021

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Neoprene, Nitrile rubber.

Respiratory protection:

N.A.

Thermal Hazards:

Not expected if used as intended

Environmental exposure controls:

Prevent the product from entering sewers or surface and underground water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: Colourless

Odour: Like: Alcohol

Odour threshold: N.A.

pH: $\geq 6.50 \leq 7.50$

Kinematic viscosity: N.A. (Not determined, as it is not required for CLP classification)

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: 100 °C (212 °F)

Flash point: 79 °C (174 °F)

Lower and upper explosion limit: N.A. (Not applicable as the mixture is not flammable)

Relative vapour density: N.A.

Vapour pressure: 23.00 hPa

Density and/or relative density: 1.00 g/cm³

Solubility in water: Soluble

Solubility in oil: N.A. (Not determined, as it is not required for CLP classification)

Partition coefficient n-octanol/water (log value): N.A. (Not applicable to mixtures)

Auto-ignition temperature: 270.00 °C

Decomposition temperature: N.A. (Not applicable, as the mixture is not self-reactive)

Flammability: ; Not applicable as the mixture is not flammable

Volatile Organic compounds - VOCs = 15 % ; 150 g/l

Particle characteristics:

Particle size: N.A.

9.2. Other information

(Not applicable, the mixture contains no explosive groups)

(Not applicable as the mixture is not flammable)

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met
c) serious eye damage/irritation	The product is classified: Eye Dam. 1(H318)
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Alcohols, C12-15, branched and linear, ethoxylated	a) acute toxicity	LD50 Oral > 300 mg/kg
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11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
Alcohols, C12-15, branched and linear, ethoxylated	CAS: 106232-83-1	a) Aquatic acute toxicity : LC50 Fish Carassius Auratus < 10 mg/L 96h CESIO a) Aquatic acute toxicity : EC50 Honeybees Daphnie < 10 mg/L 48h CESIO

12.2. Persistence and degradability

Component	Persistence/Degradability:	Duration	Notes:
Alcohols, C12-15, branched and linear, ethoxylated	Readily biodegradable	28d	>70% (OECD tg 301 B)

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.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration $\geq 0.1\%$

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as hazardous waste

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

N.A.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

N/A

14.2. UN proper shipping name

ADR-Shipping Name: N/A

IATA-Shipping Name: N/A

IMDG-Shipping Name: N/A

14.3. Transport hazard class(es)

ADR-Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

14.4. Packing group

ADR-Packing Group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A

ADR Limited Quantities: N/A

ADR Excepted Quantities: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage and handling: N/A

IMDG-Segregation: N/A

IMDG-Subsidiary hazards: N/A

IMDG-Special Provisions: N/A

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)
Regulation (EU) n. 2023/707
Regulation (EU) n. 2023/1434 (ATP 19 CLP)
Regulation (EU) n. 2023/1435 (ATP 20 CLP)
Regulation (EU) n. 2024/197 (ATP 21 CLP)
Regulation (EU) n. 2020/878
Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 75

Provisions related to directive EU 2012/18 (Seveso III):

None

Explosives precursors – Regulation 2019/1148

No substances listed

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

Class 2: hazardous for water.

German Lagerklasse according to TRGS 510:

LGK 10

SVHC Substances:

No SVHC substances present in concentration $\geq 0.1\%$

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008

[CLP]:

Classification according to Regulation (EC) Nr. 1272/2008 **Classification procedure**

Eye Dam. 1, H318

Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: Keep Away From Heat

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information