

Safety Data Sheet

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

HYPER FOAM COMBI

Date of first edition: 7/18/2023 Safety Data Sheet dated 16/05/2024

version 2

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

1.1. Product identifier

Mixture identification:

Trade name: HYPER FOAM COMBI

Trade code: K50483

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

Recommended use: Polyurethane-sealant

Uses advised against: All uses other than recommended ones

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL France

25, avenue de l'Industrie - 69960 Corbas - France

Tel. +33 472 890 684 safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112 Kerakoll Italy - +39-0536-816511 Ireland Poison information centre: 01 809 2166 (Daily 8am-10pm) In case of emergency call 999 or 112 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)

Aerosols 1 Extremely flammable aerosol. Pressurized container: may burst if heated.

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2 Causes serious eye irritation.

Resp. Sens. 1B May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 May cause an allergic skin reaction.

Carc. 2 Suspected of causing cancer.

Lact. May cause harm to breast-fed children.

STOT SE 3 May cause respiratory irritation.

STOT RE 2 May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 4 May cause long lasting harmful effects to aquatic life.

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

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.
Precautionary s	statements
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P33 8	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container in accordance with applicable regulations.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Contains

H319

H334

H335

4,4' diphenylmethanediisocyanate, isomere, homologe and mixtures

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

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used

As from 24 August 2023 adequate training is required before industrial or professional use.

2.3. Other hazards

PBT, vPvB or endocrine disruptor substances present in concentration \geq 0.1%:

Component	Ident. Numb.	Quantity	Material Properties
Alkanes, C14-17	, CAS: 85535-85-9 - EINECS: 287-477-0 - Index: 01-	- ≥10-<20 %	PBT, vPvB

chloro 2119519269

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

Causes serious eye irritation.

May cause respiratory irritation.

Cuanastad of aquaina agrees

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: HYPER FOAM COMBI

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

Qty	Name	Ident. Numb.	Classification	Registration Number	Material Properties
≥20-<50 %	4,4' diphenylmethanediisocyanate, isomere, homologe and mixtures	CAS:9016-87-9	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Resp. Sens. 1B, H334; Skin Sens. 1, H317; Carc. 2, H351; STOT RE 2, H373; STOT SE 3, H335		
≥10-<20 %	Alkanes, C14-17, chloro	CAS:85535-85-9 EC:287-477-0 Index:01- 2119519269	Lact., H362; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, EUH066		PBT, vPvB
≥5-<10 %	Dimethyl ether	CAS:115-10-6 EC:204-065-8	Flam. Gas 1, H220; Press. Gas, H280	01-2119472128-37	
≥3-<5 %	Propane-1,2-diol, propoxylated	CAS:25322-69-4 EC:500-039-8	Acute Tox. 4, H302		
≥1-<3 %	Glycerol, propoxylated	CAS:25791-96-2	Acute Tox. 4, H302		
Data 16	S/05/2024 Production Name	HVDED EOVIN CO	MRI		Pagon 2 of

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≥0.05-<0.1 octamethylcyclotetrasiloxane

CAS:556-67-2 EC:209-136-7 Index:014-018Repr. 2, H361f; Aquatic Chronic 1, 01-2119529238-36

PBT, vPvB

H410, M-Chronic:10

00-1

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.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

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 opthalmologist 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:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

Eye irritation

Eye damages

Skin Irritation

Ervthema

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:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

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 all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

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

Date 16/05/2024 **Production Name** HYPER FOAM COMBI Page n. 3 of 15 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.

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

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.

Contamined 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

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. Store in closed containers and in a well-ventilated place

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

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	
4,4' diphenylmethanediisocyanate , isomere, homologe and mixtures CAS: 9016-87-9	NATIONAL	GERMANY	Long Term: 0.05 mg/m3 DFG, H, Sah, Y, 12, E, 1;=2=(I) Source: TRGS 900	
	NATIONAL	SLOVENIA	Long Term: 0.05 mg/m3; Short Term: 0.05 mg/m3 K, Y, (I), R2 Source: UL št. 72, 11. 5. 2021	
Alkanes, C14-17, chloro CAS: 85535-85-9	NATIONAL	GERMANY	Long Term: 6 mg/m3 - 0.3 ppm H, Y, 11, AGS, E, 8(II) Source: TRGS 900	
	NATIONAL	SLOVENIA	Long Term: 6 mg/m3 - 0.3 ppm; Short Term: 48 mg/m3 - 2.4 ppm K, Y, (I) Source: UL št. 72, 11. 5. 2021	
Dimethyl ether CAS: 115-10-6	EU		Long Term: 1920 mg/m3 - 1000 ppm (8h)	
	NATIONAL	AUSTRIA	Long Term: 1910 mg/m3 - 1000 ppm; Short Term: Ceiling - 3820 mg/m3 - 2000 ppm 60(Mow), 3x, MAK Source: GKV, BGBl. II Nr. 156/2021	
	NATIONAL	BULGARIA	Long Term: 1920 mg/m3 - 1000 ppm Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.	
	NATIONAL	CZECHIA	Long Term: 1000 mg/m3; Short Term: Ceiling - 2000 mg/m3 Source: Nařízení vlády č. 361-2007 Sb	
	NATIONAL	DENMARK	Long Term: 1920 mg/m3 - 1000 ppm E Source: BEK nr 2203 af 29/11/2021	

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Long Term: 1920 mg/m3 - 1000 ppm NATIONAL ESTONIA

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

Long Term: 2000 mg/m3 - 1000 ppm NATIONAL FINLAND

Source: HTP-ARVOT 2020

Long Term: 1920 mg/m3 - 1000 ppm NATIONAL FRANCE

Source: INRS outil65, arrêté du 30-06-2004 modifié

NATIONAL GREECE Long Term: 1920 mg/m3 - 1000 ppm

Source: ΦΕΚ 227/A 9.10.2001

NATIONAL HUNGARY Long Term: 1920 mg/m3

EU1, N

Source: 5/2020. (II. 6.) ITM rendelet

Long Term: 1920 mg/m3 - 1000 ppm; Short Term: 2280 mg/m3 - 1500 ppm NATIONAL LITHUANIA

Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

NETHERLAND Long Term: 950 mg/m3; Short Term: 1500 mg/m3 NATIONAL

Source: Arbeidsomstandighedenregeling - Lijst A

NATIONAL NORWAY Long Term: 384 mg/m3 - 200 ppm

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 1000 mg/m3

Source: Dz.U. 2018 poz. 1286

NATIONAL SLOVAKIA Long Term: 1920 mg/m3 - 1000 ppm

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

NATIONAL SWEDEN Long Term: 950 mg/m3 - 500 ppm; Short Term: 1500 mg/m3 - 800 ppm

Source: AFS 2021:3

SUVA SWITZERLAN Long Term: 1910 mg/m3 - 1000 ppm

> Formel / Formal D

> > Source: suva.ch/valeurs-limites

Long Term: 766 mg/m3 - 400 ppm; Short Term: 958 mg/m3 - 500 ppm WEL-EH40 UNITED

KINGDOM OF Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

GREAT

BRITAIN AND NORTHERN **IRELAND**

NATIONAL BELGIUM Long Term: 1920 mg/m3 - 1000 ppm

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL CROATIA Long Term: 1920 mg/m3 - 1000 ppm

Source: 2000/39/EZ

NATIONAL CYPRUS Long Term: 1920 mg/m3 - 1000 ppm

Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί

του 2001 έως 2021

Long Term: 1900 mg/m3 - 1000 ppm NATIONAL GERMANY

DFG, EU, 8(II) Source: TRGS 900

NATIONAL IRELAND Long Term: 1920 mg/m3 - 1000 ppm

IOELV

Source: 2021 Code of Practice

Long Term: 1920 mg/m3 - 1000 ppm NATIONAL ITALY

Source: D.lgs. 81/2008, Allegato XXXVIII

NATIONAL LATVIA Long Term: 1920 mg/m3 - 1000 ppm

Source: KN325P1

NATIONAL LUXEMBOUR Long Term: 1920 mg/m3 - 1000 ppm

Source: Mémorial A n.226 du 22 mars 2021

Long Term: 1920 mg/m3 - 1000 ppm NATIONAL MALTA

Source: S.L.424.24

NATIONAL PORTUGAL Long Term: 1920 mg/m3 - 1000 ppm

Source: Decreto-Lei n.º 1/2021

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Long Term: 1920 mg/m3 - 1000 ppm NATIONAL ROMANIA

Dir. 2000/39

Source: Republicarea 1 - nr. 743 din 29 iulie 2021

NATIONAL SLOVENIA Long Term: 1920 mg/m3 - 1000 ppm; Short Term: 15360 mg/m3 - 8000 ppm

Source: UL št. 72, 11. 5. 2021

NATIONAL SPAIN Long Term: 1920 mg/m3 - 1000 ppm

VLI

Source: LEP 2022

octamethylcyclotetrasiloxane NATIONAL AUSTRIA

CAS: 556-67-2 Source: BGBl. II Nr. 156/2021

Predicted No Effect Concentration (PNEC) values

Alkanes, C14-17, chloro Exposure Route: Fresh Water; PNEC Limit: 1 μg/l

CAS: 85535-85-9

Exposure Route: Marine water; PNEC Limit: 200 ng/L

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 80 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 13 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 2.6 mg/kg

Exposure Route: Soil; PNEC Limit: 11.9 mg/kg

Exposure Route: Secondary poisoning; PNEC Limit: 10 mg/kg Exposure Route: Fresh Water; PNEC Limit: 150 µg/l

Propane-1,2-diol, propoxylated CAS: 25322-69-4

> Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1 mg/l Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 592 µg/kg Exposure Route: Freshwater sediments; PNEC Limit: 59.2 µg/kg

Exposure Route: Soil; PNEC Limit: 69.8 µg/kg

octamethylcyclotetrasilox Exposure Route: Fresh Water; PNEC Limit: 0.44 µg/l

CAS: 556-67-2

Exposure Route: Marine water; PNEC Limit: 0.044 µg/l

Exposure Route: Marine water sediments; PNEC Limit: 0.059 mg/kg Exposure Route: Freshwater sediments; PNEC Limit: 0.59 mg/kg Exposure Route: Secondary poisoning; PNEC Limit: 41 mg/kg

Exposure Route: Soil; PNEC Limit: 0.15 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l

Derived No Effect Level (DNEL) values

Alkanes, C14-17, chloro CAS: 85535-85-9

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 6.7 mg/m³; Consumer: 2 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 47.9 mg/kg; Consumer: 28.75 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 580 µg/kg

Propane-1,2-diol, propoxylated CAS: 25322-69-4 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 98 mg/m³; Consumer: 29 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Professional: 10 mg/m³; Consumer: 10 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 13.9 mg/m³; Consumer: 8.3 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 8.3 mg/kg

ane CAS: 556-67-2

octamethylcyclotetrasilox Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 73 mg/m³; Consumer: 13 mg/m³

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Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Professional: 73 mg/m³; Consumer: 13 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 3.7 mg/kg

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.(EN166)

Protection for skin:

Chemical protection clothing. Safety shoes.

Protection for hands:

When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN374) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN374) is recommended. Glove thickness alone is not a good indicator of the level of protection a glove provides against a chemical substance as this level of protection is also highly dependent of the specific composition of the material a glove is fabricated from. The thickness of the glove must depending on model and type of material, generally be more than 0,35 mm to offer sufficient protection for prolonged and frequent contact with the substance. As an exception to this general rule it is known that multilayer laminate gloves may offer prolonged protection at thicknesses less than 0,35 mm. Other glove materials with a thickness of less than 0,35 mm may offer sufficient protection when only brief contact is expected. Suitable materials for safety gloves; EN 374:

Polychloroprene - CR: thickness $\geq 0,5$ mm; breakthrough time ≥ 480 min. Nitrile rubber - NBR: thickness $\geq 0,35$ mm; breakthrough time ≥ 480 min. Butyl rubber - IIR: thickness $\geq 0,5$ mm; breakthrough time ≥ 480 min. Fluorinated rubber - FKM: thickness $\geq 0,4$ mm; breakthrough time ≥ 480 min.

Respiratory protection:

Gas filter and particle filter P2 . Gas filter type A

Thermal Hazards:

N.A

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: Yellow Odour: N.A.

Odour threshold: N.A. pH: Not Relevant Kinematic viscosity: N.A.

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: -12 °C (10 °F)

Flash point: Not Applicable

Lower and upper explosion limit: N.A.

Relative vapour density: N.A. Vapour pressure: N.A.

Density and/or relative density: 958.00 kg/m3 Notes: @ 20 °C

Solubility in water: N.A. Solubility in oil: N.A.

Partition coefficient n-octanol/water (log value): N.A.

Auto-ignition temperature: 460.00 °C Decomposition temperature: N.A.

 $Flammability \colon N.A.$

Volatile Organic compounds - VOCs = 12.99 %; 124.44 g/l

Particle characteristics:

Particle size: N.A.

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

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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

Acids; Bases

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 The product is classified: Skin Irrit. 2(H315) c) serious eye damage/irritation The product is classified: Eye Irrit. 2(H319)

d) respiratory or skin sensitisation The product is classified: Resp. Sens. 1B(H334), Skin Sens. 1(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

The product is classified: Carc. 2(H351)
g) reproductive toxicity

The product is classified: Lact.(H362)

The product is classified: STOT SE 3(H335)
i) STOT-repeated exposure

The product is classified: STOT RE 2(H373)

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

4,4' a) acute toxicity diphenylmethanediisocya

nate, isomere, homologe

and mixtures

LC50 Inhalation Mist Rat = 1.5 mg/l 4h

ATE Aerosol inhalation = 11 mg/kg LC50 Inhalation Vapour Rat = 15 mg/l

Alkanes, C14-17, chloro a) acute toxicity LD50 Oral Rat > 10 ml/Kg

LC50 Inhalation Vapour Rat > 48170 mg/m3 1h

LD50 Skin Rat > 2.5 ml/Kg 24h

b) skin corrosion/irritation Skin Irritant Rabbit Positive 4h

c) serious eye damage/irritation Eye Irritant Rabbit Yes

d) respiratory or skin

sensitisation

Skin Sensitization Guineapig Negative

f) carcinogenicity Genotoxicity Rat Negative Oral route

g) reproductive toxicity No Observed Adverse Effect Level Oral Rat = 400

mg/kg

Propane-1,2-diol, propoxylated

a) acute toxicity LD50 Oral Rat > 5000 mg/kg

LD50 2 000 - 22 000 mg/l

(rat)

LC50 Inhalation Vapour Rat = 0.17 mg/l 1h

b) skin corrosion/irritation Skin Irritant Rabbit Negative

c) serious eye damage/irritation Eye Irritant Rabbit No

d) respiratory or skin

sensitisation

Respiratory Sensitization Negative

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Skin Sensitization Negative

g) reproductive toxicity No Observed Adverse Effect Level Oral Rat >= 1000

mg/kg

Glycerol, propoxylated a) acute toxicity LD50 Oral Rat > 2000 mg/kg

b) skin corrosion/irritation Skin Irritant Rabbit Negative

d) respiratory or skin Skin Sensitization Guineapig Negative

sensitisation

octamethylcyclotetrasilox a) acute toxicity LD50 Oral Rat > 4800 mg/kg

ane

LC50 Inhalation of aerosol Rat = 36 mg/l 4h

LD50 Skin Rat > 2375 ml/Kg

b) skin corrosion/irritation Skin Irritant Rabbit Negative 24h

c) serious eye Eye Irritant Rabbit No 48h damage/irritation

d) respiratory or skin sensitisation

ory or skin Skin Sensitization Guineapig Negative 48h

Genotoxicity Rat Negative Inhalation

g) reproductive toxicity No Observed Adverse Effect Level Inhalation Rat = ppm

300

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 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:

May cause long lasting harmful effects to aquatic life.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 4(H413)

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna > 1000 mg/L 48h

a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 1000 mg/L 48h

List of Eco-Toxicological properties of the components

Component Ident. Numb. Ecotox Data Alkanes, C14-17, chloro CAS: 85535-85- a) Aquatic acute toxicity: LC50 Fish Alburnus alburnus > 5000 mg/L 96h 9 - EINECS: 287-477-0 INDEX: 01-

287-477-0 -INDEX: 01-2119519269

a) Aquatic acute toxicity : NOEC Daphnia Daphnia magna < 0.1 mg/L 48h OECD Guideline 202

OLOD Galdeline 202

a) Aquatic acute toxicity: EC50 Algae Selenastrum capricornutum > 3.2 mg/L

96h OECD (201)

a) Aquatic acute toxicity: NOEC Sludge activated sludge = 2000 mg/L 3h

OECD Guideline 209

d) Terrestrial toxicity: NOEC Worm Eisenia fetida = 280 mg/kg OECD

guideline 216

e) Plant toxicity: NOEC = 5800 mg/kg OECD guideline 208

d) Terrestrial toxicity : NOEC Avian Anas platyrhynchos = 166 mg/kg OECD

guideline 206

Propane-1,2-diol, propoxylated CAS: 25322-69- a) Aquatic acute toxicity: LC50 Fish Danio rerio > 100 mg/L 96h OECD 203

4 - EINECS:

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a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 105.8 mg/L 48h OECD Guideline 202

b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna = 10 mg/L OECD 211 - 21days

a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus > 100 mg/L

a) Aquatic acute toxicity: NOEC Sludge activated sludge = 1000 mg/L 3h OECD Guideline 209

CAS: 556-67-2 - a) Aquatic acute toxicity: LC50 Fish Leuciscus idus > 3000 mg/L 96h octamethylcyclotetrasiloxane

EINECS: 209-136-7 - INDEX: 014-018-00-1

- b) Aquatic chronic toxicity: NOEC Fish Oncorhynchus mykiss $>= 4.4 \mu g/L$ -93days
- a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna $> 15 \mu g/L 48h$ Springborn Laboratories 1990c
- b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna > 15 μg/L ,,Springborn Laboratories 1990e, Smithers Viscient 2018 - 21days
- a) Aquatic acute toxicity: EC50 Algae Selenastrum capricornutum >= 22 µg/L 96h Springborn Laboratories 1990f

OECD Guideline 310

a) Aquatic acute toxicity: EC50 Sludge Activated Sludge > 10000 mg/L 3h ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge

12.2. Persistence and degradability

Component	Persitence/Degradability:	Test	Value	Notes:
Alkanes, C14-17, chloro	Non-readily biodegradable	Oxygen consumption		Biodegradability is retarded by increasing degree of chlorination, though biodegradation continued for even the highest chlorinated test material in an extended study.
Propane-1,2-diol, propoxylated	Readily biodegradable		100.000	0 %; OECD Guideline 301 F

12.3. Bioaccumulative potential

octamethylcyclotetrasiloxane

Component	Bioaccumulation	Test	Value Notes:
Alkanes, C14-17, chloro	Bioaccumulative	BCF - Bioconcentrantion factor	6660. 000
octamethylcyclotetrasiloxane	Bioaccumulative	BCF - Bioconcentrantion factor	14900. L/kg ww 000

Non-readily biodegradable

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

PBT/vPvB Substances:

Component	Ident. Numb.	Quantity	Material Properties
Alkanes, C14-17, chloro	. CAS: 85535-85-9 - EINECS: 287-477-0 - Index: 01- 2119519269	≥10-<20 %	PBT - vPvB
octamethylcyclot etrasiloxane	CAS: 556-67-2 - EINECS: 209-136-7 - Index: 014-018-00-1	≥0.05-<0.1 %	PBT - vPvB

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

N.A.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

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.

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

SECTION 14: Transport information

14.1. UN number or ID number

1950

14.2. UN proper shipping name

ADR-Shipping Name: AEROSOLS, flammable IATA-Technical name: AEROSOLS, FLAMMABLE

IMDG-Technical name: AEROSOLS

14.3. Transport hazard class(es)

ADR-Class: 2 IATA-Class: 2.1 IMDG-Class: 2

14.4. Packing group

ADR-Packing Group:
IATA-Packing group:
IMDG-Packing group: -

14.5. Environmental hazards

Marine pollutant: No Environmental Pollutant: No IMDG-EMS: F-D, S-U

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 2.1

ADR - Hazard identification number: ADR-Special Provisions: 190 327 344 625

ADR-Transport category (Tunnel restriction code): 2 (D)

ADR Limited Quantities: 1 L ADR Excepted Quantities: E0

Air (IATA):

IATA-Passenger Aircraft: 203 IATA-Cargo Aircraft: 203

IATA-Label: 2.1

IATA-Subsidiary hazards: -

IATA-Erg: 10L

IATA-Special Provisions: A145 A167 A802

Sea (IMDG):

IMDG-Stowage Code: SW1 SW22 IMDG-Stowage Note: SG69 IMDG-Subsidiary hazards: See SP63

IMDG-Special Provisions: 63 190 277 327 344 381 959

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)

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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. 2016/1179 (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. 2022/692 (ATP 18 CLP) Regulation (EU) n. 2020/878

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

Regulation (EU) n. 2021/643 (ATP 16 CLP) Regulation (EU) n. 2021/849 (ATP 17 CLP)

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, 40

Restrictions related to the substances contained: 70, 74, 75

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

Seveso III category according Lower-tier threshold (tonnes) Upper-tier threshold (tonnes) to Annex 1, part 1

Product belongs to category: P3a 150 500

Explosives precursors - Regulation 2019/1148

No substances listed

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

No substances listed

German Water Hazard Class.

2: Hazard to waters

German Lagerklasse according to TRGS 510:

LGK 2B

SVHC Substances:

Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):

Component	Ident. Numb.	Quantity	Material Properties
Alkanes, C14-17, chloro	CAS: 85535-85-9	≥10-<20 %	SVHC - PBT - vPvB
	EINECS: 287-477-0		
	Index: 01-2119519269		
octamethylcyclotetrasiloxane	CAS: 556-67-2	≥0.05-<0.1 %	SVHC - PBT - vPvB
	EINECS: 209-136-7		

Index: 014-018-00-1

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
H220	Extremely flammable gas.
H222, H229	Extremely flammable aerosol. Pressurized container: may burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

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H332	Harmful if inhaled.			
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
H335	May cause respiratory irritation.	May cause respiratory irritation.		
H351	Suspected of causing cancer.			
H362	May cause harm to breast-fed children.			
H373	May cause damage to organs through pro	olonged or repeated exposure.		
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting	g effects.		
H413	May cause long lasting harmful effects to	aquatic life.		
Code	Hazard class and hazard category	Description		
2.2/1	Flam. Gas 1	Flammable gas, Category 1		
2.3/1	Aerosols 1	Aerosol, Category 1		
2.5	Press. Gas	Gases under pressure		
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4		
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4		
3.2/2	Skin Irrit. 2	Skin irritation, Category 2		
3.3/2	Eye Irrit. 2	Eye irritation, Category 2		
3.4.1/1B	Resp. Sens. 1B	Respiratory Sensitisation, Category 1B		
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1		
3.6/2	Carc. 2	Carcinogenicity, Category 2		
3.7/Lact.	Lact.	Reproductive toxicity, Hazard category for lactation effects		
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3		
3.9/2	STOT RE 2	Specific target organ toxicity $-$ repeated exposure, Category 2		
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1		
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1		
4.1/C4	Aquatic Chronic 4	Chronic (long term) aquatic hazard, category 4		

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
Aerosols 1, H222+H229	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Resp. Sens. 1B, H334	Calculation method
Skin Sens. 1, H317	Calculation method
Carc. 2, H351	Calculation method
Lact., H362	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 4, H413	Calculation method

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

Main bibliographic sources:

H319

Causes serious eye irritation.

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

Date 16/05/2024 Production Name HYPER FOAM COMBI Page n. 13 of 15 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 5: Firefighting measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 10: Stability and reactivity

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- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 15: Regulatory information

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