

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 6/9/2022

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

1.1. Product identifier

Product form : Mixture

Product name : BioHygiene Heavy Duty Floor Cleaner

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Heavy duty floor cleaner and degreaser.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

BioHygiene

Unit A - D 12 Pant Glas Industrial Estate

Bedwas Caerphilly

CF83 8GE

IJK

T +44 (0) 29 2067 4094

general@biologicalpreparations.com

1.4. Emergency telephone number

Emergency number : +44 (0) 29 2067 4094 (9am to 5pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315 H318 Serious eye damage/eye irritation, Category 1

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes eye irritation. Presents no particular risk to the environment.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

Signal word (CLP) : Danger

Contains C08-10 Alkyl glucoside , Sodium Metasilicate Pentahydrate

Hazard statements (CLP) : H315 - Causes skin irritation.

H318 - Causes serious eye damage.

Precautionary statements (CLP) : P280 - Wear protective gloves and eye protection when handling product concentrate.

P302+P352 - IF ON SKIN: Wash with plenty of water. P363 - Wash contaminated clothing before reuse.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P315 - Get immediate medical advice/attention.

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2.3. Other hazards

This mixture is not considered to be persistent, bioaccumulating and toxic (PBT)

This mixture is not considered to be persistent, bioaccumulating and toxic (PVB)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium Metasilicate Pentahydrate	CAS-No.: 10213-79-3 EC-No.: 229-912-9 EC Index-No.: 014-010-00-8 REACH-no: 01-2119449811- 37-XXXX	≥ 3 - < 5	Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335
C08-10 Alkyl glucoside	CAS-No.: 68515-73-1 EC-No.: 500-220-1 REACH-no: 01-2119488530- 36-XXXX	≥1-<3	Eye Dam. 1, H318

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
C08-10 Alkyl glucoside	CAS-No.: 68515-73-1 EC-No.: 500-220-1 REACH-no: 01-2119488530- 36-XXXX	(3 ≤C < 9.99) Eye Irrit. 2, H319 (10 ≤C < 100) Eye Dam. 1, H318	

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : To our knowledge, the product does not present any particular risk, under normal conditions

of use. Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : To our knowledge, the product does not present any particular risk, under normal conditions

Symptoms/effects after inhalation

: May cause slight temporary irritation. Symptoms/effects after skin contact : May cause slight irritation to the skin.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/effects after ingestion : May cause irritation to the digestive tract.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : None known.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Wash immediately with plenty of water.

6.1.1. For non-emergency personnel

Protective equipment : No special requirement . Avoid contact with skin.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

Measures in case of dust release : Not applicable (aqueous liquid).

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Wash immediately with plenty of water.

6.2. Environmental precautions

Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with

6.3. Methods and material for containment and cleaning up

For containment : Stop leak without risks if possible.

Methods for cleaning up : Clean contaminated surfaces with an excess of water.

Other information : Small amount of unwanted product may be flushed with water to sewer.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Not expected to present a significant hazard under anticipated conditions of normal use.

Avoid contact with skin and eyes. Ensure spraying away from persons.

Hygiene measures : Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

BioHygiene Heavy Duty Floor Cleaner	
United Kingdom - Occupational Exposure Limits	
Remark	Contains no substances with occupational work exposure limits.

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

8.1.4. DNEL and PNEC			
C08-10 Alkyl glucoside (68515-73-1)			
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	595000 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	420 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	35.7 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	124 mg/m³		
Long-term - systemic effects, dermal	357000 mg/kg bodyweight/day		
PNEC (Water)			
PNEC aqua (freshwater)	0.176 mg/l		
PNEC aqua (marine water)	0.0176 mg/l		
PNEC aqua (intermittent, freshwater)	0.27 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	1.516 mg/kg dwt		
PNEC sediment (marine water)	0.152 mg/kg dwt		
PNEC (Soil)			
PNEC soil	0.654 mg/kg dwt		
PNEC (Oral)			
PNEC oral (secondary poisoning)	111.11 mg/kg food		
PNEC (STP)			
PNEC sewage treatment plant	560 mg/l		
Sodium Metasilicate Pentahydrate (10213-79-3)			
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	1.49 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	6.22 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	0.74 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	1.55 mg/m³		

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Sodium Metasilicate Pentahydrate (10213-79-3)			
Long-term - systemic effects, dermal	0.74 mg/kg bodyweight/day		
PNEC (Water)			
PNEC aqua (freshwater)	7.5 mg/l		
PNEC aqua (marine water)	1 mg/l		
PNEC aqua (intermittent, freshwater)	7.5 mg/l		
PNEC (STP)			
PNEC sewage treatment plant	1000 mg/l		
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts (147170-44-3)		
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	12.5 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	44 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	7.5 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	13.04 mg/m³		
Long-term - systemic effects, dermal	7.5 mg/kg bodyweight/day		
PNEC (Water)			
PNEC aqua (freshwater)	0.0135 mg/l		
PNEC aqua (marine water)	0.00135 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	11.1 mg/kg dwt		
PNEC sediment (marine water)	1.11 mg/kg dwt		
PNEC (Soil)			
PNEC soil	0.85 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	3000 mg/l		

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

No special requirement.

8.2.2. Personal protection equipment

Personal protective equipment:

 $\label{thm:concentrates} We ar \ eye \ protection. \ Handling \ and \ dilution \ of \ concentrates. \ We ar \ protective \ gloves.$

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Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

Eye protection:

Handling and dilution of concentrates

8.2.2.2. Skin protection

Skin and body protection:

No special requirement

Hand protection:

Wear protective gloves; Handling and dilution of concentrates

8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions

8.2.2.4. Thermal hazards

Thermal hazard protection:

Not required.

8.2.3. Environmental exposure controls

Environmental exposure controls:

No special environmental concerns.

Consumer exposure controls:

The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour Green. Appearance : Liquid. Odour : Pleasant. Odour threshold : Not available Melting point : Not available Freezing point : Not available Boiling point : Not available Flammability : Not applicable Explosive limits : Not available Lower explosive limit (LEL) : Not available Upper explosive limit (UEL) : Not available Flash point : Not available : Not available Auto-ignition temperature Decomposition temperature : Not available рΗ : 11 (≥ 12) Viscosity, kinematic : Not available Solubility : Easily soluble. Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure Not available Vapour pressure at 50 °C Not available Not available Density Relative density Not available Relative vapour density at 20 °C : Not available

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Particle size : Not applicable Particle size distribution : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable : Not applicable Particle aggregation state Particle agglomeration state : Not applicable Particle specific surface area : Not applicable Particle dustiness : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

LC50 Inhalation - Rat

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

C08-10 Alkyl glucoside (68515-73-1)			
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)		
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
Sodium Metasilicate Pentahydrate (10213-79-3)			
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)		

> 2.06 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

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Skin corrosion/irritation : Causes skin irritation.

pH: 11 (≥ 12)

Serious eye damage/irritation : Causes serious eye damage.

pH: 11 (≥ 12)

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified

C08-10 Alkyl glucoside (68515-73-1)

NOAEL (oral, rat, 90 days)

100 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Sodium Metasilicate Pentahydrate (10213-79-3)

NOAEL (oral, rat, 90 days)
227 – 237 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

: Not classified

C08-10 Alkyl glucoside (68515-73-1)			
LC50 - Fish [1]	100.81 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)		
LC50 - Fish [2]	170 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)		
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna		
EC50 72h - Algae [1]	27.22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
EC50 72h - Algae [2]	37 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		

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Sodium Metasilicate Pentahydrate (10213-79-3)		
EC50 - Crustacea [1]	1700 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	207 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	

12.2. Persistence and degradability

BioHygiene Heavy Duty Floor Cleaner		
Persistence and degradability	Readily biodegradable.	

12.3. Bioaccumulative potential

BioHygiene Heavy Duty Floor Cleaner	
	The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

BioHygiene Heavy Duty Floor Cleaner

This mixture is not considered to be persistent, bioaccumulating and toxic (PBT)

This mixture is not considered to be persistent, bioaccumulating and toxic (PVB)

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN	RID
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	

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Abbreviations and acronyms:		
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	

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Full text of H- and EUH-statements:		
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.