

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

1.1. Product identifier

Product form : Mixture
Product name : BioHygiene Oven & Grill Cleaner
UFI : D0AV-214E-X00R-CEEK
Product code : BH154

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

Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Oven & Grill Cleaner

Uses advised against

Restrictions on use : Not for oral consumption, Not for direct application to food stuffs.

1.3. Details of the supplier of the safety data sheet

BioHygiene
Unit A – D 12 , Pant Glas Industrial Estate
Bedwas
Caerphilly
CF83 8GE
UK
T +44 (0) 29 2067 4094
info@biohygiene.co.uk

1.4. Emergency telephone number

Emergency number : +44 (0) 29 2067 4094 (8am to 5pm)

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

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
Serious eye damage/eye irritation, Category 1 H318
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Presents no particular risk to the environment. Causes serious eye damage. Causes skin irritation.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger
Contains : Sodium Hydroxide; Sodium Silicate; C08-10 Alkyl glucoside

BioHygiene Oven & Grill Cleaner

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

Hazard statements (CLP)	: H315 - Causes skin irritation. H318 - Causes serious eye damage.
Precautionary statements (CLP)	: P264 - Wash hands thoroughly after handling. P280 - Wear eye protection. P302+P352 - IF ON SKIN: Wash with plenty of water. 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. P332+P313 - If skin irritation occurs: Get medical advice/attention.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

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

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Sodium Hydroxide (1310-73-2)

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 substance(s) are 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 %

Component	
Substance(s) not 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	Sodium Hydroxide (1310-73-2)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2-dimethyl-1,3-dioxolan-4-ylmethanol	CAS-No.: 100-79-8 EC-No.: 202-888-7 REACH-no: 01-2120066005-66-XXXX	$\geq 5 - < 10$	Eye Irrit. 2, H319
Sodium Silicate	CAS-No.: 1344-09-8 EC-No.: 215-687-4	$\geq 1 - < 5$	Skin Corr. 1, H314 Eye Dam. 1, H318
Tetrasodium Pyrophosphate	CAS-No.: 7320-34-5 EC-No.: 230-785-7	$\geq 1 - < 5$	Eye Irrit. 2, H319
C08-10 Alkyl glucoside	CAS-No.: 68515-73-1 EC-No.: 500-220-1 REACH-no: 01-2119488530-36-XXXX	$\geq 1 - < 5$	Eye Dam. 1, H318
Sodium Hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	$\geq 1 - < 2$	Met. Corr. 1, H290 Skin Corr. 1, H314 Eye Dam. 1, H318

BioHygiene Oven & Grill Cleaner

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Sodium Hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	(0.5 ≤ C < 2) Skin Irrit. 2; H315 (0.5 ≤ C < 2) Eye Irrit. 2; H319 (2 ≤ C < 5) Skin Corr. 1B; H314 (5 ≤ C ≤ 100) Skin Corr. 1A; H314

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 (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth out with water. Get immediate medical advice/attention.

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

Symptoms/effects	: Repeated or prolonged contact may cause skin irritation. Direct contact with the eyes is likely to be irritating.
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation. redness, itching, tears. Risk of serious damage to eyes.
Symptoms/effects after ingestion	: May cause severe irritation to the digestive tract.

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 : Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable.
Explosion hazard	: Product is not explosive.
Reactivity in case of fire	: Product is not explosive.
Hazardous decomposition products in case of fire	: On heating irritating fumes to eyes or skin may be produced.

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 : Stop leak if safe to do so. Wash immediately with plenty of water.

For non-emergency personnel

Emergency procedures : Avoid contact with skin, eyes and clothing. When opening containers, avoid breathing vapours that may be emanating.

BioHygiene Oven & Grill Cleaner

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

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".

6.2. Environmental precautions

Presents no particular risk to the environment.

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 : Avoid contact with skin and eyes. When opening containers, avoid breathing vapours that may be emanating.
Hygiene measures : Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.
Incompatible products : Strong acids.
Incompatible materials : Strong acids.

7.3. Specific end use(s)

Oven cleaner.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Sodium Hydroxide (1310-73-2)	
United Kingdom - Occupational Exposure Limits	
Local name	Sodium hydroxide
WEL STEL (OEL STEL)	2 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Tetrasodium Pyrophosphate (7320-34-5)	
United Kingdom - Occupational Exposure Limits	
Local name	Tetrasodium pyrophosphate
WEL TWA (OEL TWA)	5 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

DNEL and PNEC

Sodium Hydroxide (1310-73-2)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	1 mg/m ³

BioHygiene Oven & Grill Cleaner

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

Sodium Hydroxide (1310-73-2)	
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	1 mg/m ³
Sodium Silicate (1344-09-8)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1.59 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5.61 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.38 mg/m ³
Long-term - systemic effects, dermal	0.8 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	348 mg/l
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/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	35.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	124 mg/m ³
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)	1516 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

BioHygiene Oven & Grill Cleaner

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

Tetrasodium Pyrophosphate (7320-34-5)

DNEL/DMEL (Workers)

Long-term - systemic effects, inhalation	17.63 mg/m ³
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DNEL/DMEL (General population)

Long-term - systemic effects, inhalation	4.35 mg/m ³
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8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Avoid contact with eyes, skin and clothing.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Wear eye protection. Always wash hands after handling the product

Eye protection

Type	Field of application	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

Skin protection

Skin and body protection:

Wear suitable working clothes

Hand protection:

Wear protective gloves. Always wash hands after handling the product. Protective gloves against chemicals (EN 374)

Hand protection

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves, Type C	Nitrile rubber (NBR)	1 (> 10 minutes)			EN ISO 374
Reusable gloves, Type A	Nitrile rubber (NBR)	2 (> 30 minutes)	>0.38mm		EN ISO 374

Respiratory protection

Respiratory protection:

Wear suitable respiratory equipment in case of insufficient ventilation

Respiratory protection

Device	Filter type	Condition	Standard
Disposable half mask	Type P3	Mist formation, Vapour protection	EN 140, EN 143

Thermal hazards

Thermal hazard protection:

Not required.

BioHygiene Oven & Grill Cleaner

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

Environmental exposure controls

Environmental exposure controls:

No special environmental concerns.

Consumer exposure controls:

When opening containers, avoid breathing vapours that may be emanating.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Liquid.
Odour	: Odourless.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not flammable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 11 – 12
Viscosity, kinematic	: Not available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1.04 – 1.045 @ 20°C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

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

10.6. Hazardous decomposition products

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

BioHygiene Oven & Grill Cleaner

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

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

Sodium Silicate (1344-09-8)

LD50 dermal rat > 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)

LC50 Inhalation - Rat > 2.06 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

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)

Tetrasodium Pyrophosphate (7320-34-5)

LD50 oral rat 300 – 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure), Remarks on results: other:

LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Remarks on results: other:

LD50 dermal rabbit > 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

LC50 Inhalation - Rat > 1.1 mg/l air Animal: rat, Guideline: other:, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: other:, Guideline: other:, Guideline: other:

2,2-dimethyl-1,3-dioxolan-4-ylmethanol (100-79-8)

LD50 oral rat 7000 mg/kg bodyweight Animal: rat

LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:

Skin corrosion/irritation : Causes skin irritation.
pH: 11 – 12

Sodium Hydroxide (1310-73-2)

pH 2

Sodium Silicate (1344-09-8)

pH > 13.5 Concentration:]42 vol%,46 vol%[

Serious eye damage/irritation : Causes serious eye damage.
pH: 11 – 12

Sodium Hydroxide (1310-73-2)

pH 2

Sodium Silicate (1344-09-8)

pH > 13.5 Concentration:]42 vol%,46 vol%[

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

BioHygiene Oven & Grill Cleaner

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

STOT-single exposure : Not classified
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)
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Tetrasodium Pyrophosphate (7320-34-5)

NOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
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2,2-dimethyl-1,3-dioxolan-4-ylmethanol (100-79-8)

NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
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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) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Sodium Hydroxide (1310-73-2)

EC50 - Crustacea [1]	40.4 mg/l Test organisms (species): Ceriodaphnia sp.
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Sodium Silicate (1344-09-8)

LC50 - Fish [1]	1108 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
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EC50 - Crustacea [1]	1700 mg/l Test organisms (species): Daphnia magna
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EC50 72h - Algae [1]	207 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
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EC50 72h - Algae [2]	> 345.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
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C08-10 Alkyl glucoside (68515-73-1)

LC50 - Fish [1]	100.81 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
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LC50 - Fish [2]	170 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
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EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
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EC50 72h - Algae [1]	27.22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
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EC50 72h - Algae [2]	37 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
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Tetrasodium Pyrophosphate (7320-34-5)

LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
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BioHygiene Oven & Grill Cleaner

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

Tetrasodium Pyrophosphate (7320-34-5)

EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

2,2-dimethyl-1,3-dioxolan-4-ylmethanol (100-79-8)

LC50 - Fish [1]	16.7 g/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	> 96 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	4.6 g/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 92 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

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Persistence and degradability	Readily biodegradable.
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Sodium Hydroxide (1310-73-2)

Persistence and degradability	Readily biodegradable.
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Sodium Silicate (1344-09-8)

Persistence and degradability	Inorganic. Not applicable.
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C08-10 Alkyl glucoside (68515-73-1)

Persistence and degradability	Readily biodegradable.
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Tetrasodium Pyrophosphate (7320-34-5)

Persistence and degradability	Inorganic. Not applicable.
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2,2-dimethyl-1,3-dioxolan-4-ylmethanol (100-79-8)

Persistence and degradability	Rapidly degradable
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12.3. Bioaccumulative potential

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Bioaccumulative potential	The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.
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Sodium Hydroxide (1310-73-2)

Bioaccumulative potential	The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.
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Sodium Silicate (1344-09-8)

Bioaccumulative potential	The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.
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C08-10 Alkyl glucoside (68515-73-1)

Bioaccumulative potential	Not potentially bioaccumulable.
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BioHygiene Oven & Grill Cleaner

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

12.4. Mobility in soil

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Additional information Soluble in water

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

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

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII Sodium Hydroxide (1310-73-2)

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

Other adverse effects : No adverse effects known.

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				
UN 1824	UN 1824	Not regulated	UN 1824	UN 1824
14.2. UN proper shipping name				
SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	Not regulated	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION
Transport document description				
UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III, (E)	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III	Not regulated	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III
14.3. Transport hazard class(es)				
8	8	Not regulated	8	8
		Not regulated		
14.4. Packing group				
III	III	Not regulated	III	III

BioHygiene Oven & Grill Cleaner

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

ADR	IMDG	IATA	ADN	RID
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-A EmS-No. (Spillage): S-B	Not regulated	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: C5
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk containers special provisions (ADR)	: TP1
Tank code (ADR)	: L4BN
Tank special provisions (ADR)	: TU42
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	: 
Tunnel restriction code (ADR)	: E
EAC code	: 2R

Transport by sea

Special provisions (IMDG)	: 223
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
Segregation (IMDG)	: SGG18, SG35
Properties and observations (IMDG)	: Colourless liquid. Corrosive to aluminium, zinc and tin. Reacts with ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids.

Air transport

Not regulated

Inland waterway transport

Classification code (ADN)	: C5
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0

BioHygiene Oven & Grill Cleaner

Safety Data Sheet

According to REACH Regulation (1907/2006) as retained in UK law by UK REACH (SI 2019/758), as amended and EU CLP Regulation (1272/2008) & GB CLP

Rail transport

Classification code (RID)	: C5
Special provisions (RID)	: 274
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk containers special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BN
Special provisions for RID tanks (RID)	: TU42
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

UK HSE EH40 workplace exposure limits

Regulation (EC) 1907/2006 - REACH (UK amended)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

BioHygiene Oven & Grill Cleaner

Safety Data Sheet

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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
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 disruptor

Full text of H- and EUH-statements:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
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BioHygiene Oven & Grill Cleaner

Safety Data Sheet

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Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye 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.