

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 05/05/2023 Version: 1.0

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

### 1.1. Product identifier

Product form : Mixture

Product name : HG descaler for appliances
UFI : VN9J-QGTG-J00U-HJTN

Product code : 174 ART

Type of product : Detergent

Product group : Trade product

Other means of identification : HG quick descaler

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

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Consumer use

Use of the substance/mixture : Washing machine care agents

1.2.2. Uses advised against

Restrictions on use : All other uses not recommended above

### 1.3. Details of the supplier of the safety data sheet

ManufacturerImporterHG International B.V.HG UKI LTD

P.J. Oudweg 41 Weston Business Centre NL- 1314 CJ Almere Parsonage Road

The Netherlands UK- CM22 6PU Takeley - Essex

T +31 (0)36 54 94 700 United Kingdom <u>safety@hg.eu</u> - <u>www.hg.eu</u> T +44 (0) 1206 822 744

www.hg.eu

### 1.4. Emergency telephone number

Emergency number : +31 (0)36 54 94 777

Only for medical personnel

Mon-Fri 09:00 AM - 05:00 PM (CEST)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

# **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 1 H314
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

Causes severe skin burns and eye damage. Causes serious eye damage.

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#### 2.2. Label elements

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

Hazard pictograms (CLP)

GHS05

Signal word (CLP) : Danger
Contains : Glycollic acid

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P280 - Wear protective gloves, eye protection.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

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

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

P501 - Dispose of contents and container to a hazardous or special waste collection point.

Child-resistant fastening : Applicable Tactile warning : Applicable

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 substances 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	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glycollic acid	CAS-No.: 79-14-1 EC-No.: 201-180-5 REACH-no: 01-2119485579- 17	≥ 10 – < 15	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318
formic acid % substance with a Community workplace exposure limit (Note B)	CAS-No.: 64-18-6 EC-No.: 200-579-1 EC Index-No.: 607-001-00-0 REACH-no: 01-2119491174- 37	≥ 0.01 – < 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation:vapour), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318
Alcohols, C12-14, ethoxylated	CAS-No.: 68439-50-9	≥ 0.1 – < 1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412

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Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
formaldehyde% substance with a Community workplace exposure limit (Note B)(Note D)	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5 REACH-no: 01-2119488953- 20	≥ 0.01 – < 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
formic acid %	CAS-No.: 64-18-6 EC-No.: 200-579-1 EC Index-No.: 607-001-00-0 REACH-no: 01-2119491174- 37	( 2 ≤C < 10) Skin Irrit. 2, H315 ( 2 ≤C < 10) Eye Irrit. 2, H319 ( 10 ≤C < 90) Skin Corr. 1B, H314 ( 90 ≤C ≤ 100) Skin Corr. 1A, H314
Alcohols, C12-14, ethoxylated	CAS-No.: 68439-50-9	( 1 ≤C < 10) Eye Irrit. 2, H319 ( 10 ≤C < 100) Eye Dam. 1, H318
formaldehyde%	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5 REACH-no: 01-2119488953- 20	( 0.2 ≤C ≤ 100) Skin Sens. 1, H317 ( 5 ≤C < 25) Skin Irrit. 2, H315 ( 5 ≤C < 25) Eye Irrit. 2, H319 ( 5 ≤C ≤ 100) STOT SE 3, H335 ( 25 ≤C ≤ 100) Skin Corr. 1B, H314

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore,

these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: '... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated

on a weight/weight basis.

Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market

in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the

words 'non-stabilised'.

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 : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a

physician immediately.

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

to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

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

Treat symptomatically.

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### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

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

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Intense heat may cause container to burst.

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

### 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 : Do not handle until all safety precautions have been read and understood.

### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Do not touch or walk on the

spilled product. Avoid contact with skin and eyes. Do not breathe mist, vapours.

#### 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".

### 6.2. Environmental precautions

Avoid release to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Contain any spills with dikes or absorbents to prevent migration

and entry into sewers or streams.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13: "Disposal considerations". For further information refer to section 13.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not

breathe mist, vapours. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible materials : Alkalis. Storage temperature : > 0 - < 30 °C

Heat and ignition sources : Keep away from heat and direct sunlight.

Special rules on packaging : Keep only in original container. Opened containers must be carefully closed and kept

upright to avoid leakage.

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# 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

# 8.1.1 National occupational exposure and biological limit values

formic acid % (64-18-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Formic acid	
IOEL TWA	9 mg/m³	
IOEL TWA [ppm]	5 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
Ireland - Occupational Exposure Limits		
Local name	Formic acid	
OEL TWA [1]	9 mg/m³	
OEL TWA [2]	5 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	
formaldehyde% (50-00-0)		
EU - Binding Occupational Exposure Limit (BOEL)		
Local name	Formaldehyde	
BOEL TWA	0.37 mg/m³ 0.62 mg/m³ (Limit value for the health care, funeral and embalming sectors until 11 July 2024)	
BOEL TWA [ppm]	0.5 ppm (Limit value for the health care, funeral and embalming sectors until 11 July 2024) 0.3 ppm	
BOEL STEL	0.74 mg/m³	
BOEL STEL [ppm]	0.6 ppm	
Notes	Dermal sensitisation (The substance can cause sensitisation of the skin)	
Regulatory reference	DIRECTIVE (EU) 2019/983 (amending Directive 2004/37/EC)	
Ireland - Occupational Exposure Limits		
Local name	Formaldehyde	
OEL TWA [1]	0.62 mg/m³ for the healthcare, funeral and embalming sectors until 11 July 2024 0.37 mg/m³	
OEL TWA [2]	0.3 ppm 0.5 ppm for the healthcare, funeral and embalming sectors until 11 July 2024	
OEL STEL	0.738 mg/m³	
OEL STEL [ppm]	0.6 ppm	

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formaldehyde% (50-00-0)	
Remark	BOELV (Binding Occupational Exposure Limit Values), Carc.1B (Substances presumed to have carcinogenic potential for humans), Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))
Regulatory reference	Chemical Agents Code of Practice 2021

### 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

No additional information available

### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

### Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Wear foot protection.

### Personal protective equipment symbol(s):









### 8.2.2.1. Eye and face protection

### Eye protection:

Safety glasses with side shields

Eye protection			
Туре	Field of application	Characteristics	Standard
Chemical goggles or face shield	Droplet		EN 166
Safety glasses with side shields	Normal use conditions		EN 166

### 8.2.2.2. Skin protection

### Skin and body protection:

Long sleeved protective clothing. Chemical resistant safety shoes

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Skin and body protection	
Туре	Standard
Use chemically protective clothing	EN 13034
Chemical resistant safety shoes	EN ISO 20345
Long sleeved protective clothing	

#### Hand protection:

Protective gloves

Hand protection	and protection				
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.35		EN ISO 374
Disposable gloves	Butyl rubber	6 (> 480 minutes)	0.5		EN ISO 374

### 8.2.2.3. Respiratory protection

### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Respiratory protection			
Device	Filter type	Condition	Standard
Half-mask	FFA2P3	Mist formation, Vapour protection	EN 405

#### 8.2.2.4. Thermal hazards

No additional information available

# 8.2.3. Environmental exposure controls

# Environmental exposure controls:

Avoid release to the environment.

### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : dark red. Odour : Characteristic. Odour threshold : Not available Melting point : Not applicable Freezing point : Not available : Not available Boiling point : Not applicable Flammability Explosive limits : Not available Lower explosion limit : Not available Upper explosion limit : Not available Flash point : > 60 °C Auto-ignition temperature : Not available Decomposition temperature : Not available : 1.6 : 100 % pH solution Viscosity, kinematic : Not available

Solubility : In water, material soluble.

Partition coefficient n-octanol/water (Log Kow) : Not available

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Vapour pressure : Not available
Vapour pressure at 50°C : Not available
Density : Not available
Relative density : 1.04
Relative vapour density at 20°C : Not available
Particle characteristics : 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

Alkalines.

### 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 (Conclusive but not sufficient for classification)

Acute toxicity (dermal) : Not classified (Conclusive but not sufficient for classification)

Acute toxicity (inhalation) : Not classified (Conclusive but not sufficient for classification)

Glycollic acid (79-14-1)		
LD50 oral rat	2040 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 81-1 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 1443 - 2469	
LC50 Inhalation - Rat (Dust/Mist)	3.6 mg/l/4h	
formic acid % (64-18-6)		
LD50 oral rat	730 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 618 - 863	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LC50 Inhalation - Rat	7.85 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)	

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formaldehyde% (50-00-0)	
LC50 Inhalation - Rat (Dust/Mist)	> mg/l/4h
Alcohols, C12-14, ethoxylated (68439-50-9)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral)), Guideline: other:
LD50 dermal rabbit	> 3000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LC50 Inhalation - Rat	> 1.6 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other:
Skin corrosion/irritation :	Causes severe skin burns. pH: 1.6
Glycollic acid (79-14-1)	
рН	1.73
formaldehyde% (50-00-0)	
рН	2.8 – 4
Serious eye damage/irritation :	Causes serious eye damage. pH: 1.6
Glycollic acid (79-14-1)	
рН	1.73
formaldehyde% (50-00-0)	
рН	2.8 – 4
Respiratory or skin sensitisation :	Not classified (Conclusive but not sufficient for classification)
Germ cell mutagenicity :	Not classified (Conclusive but not sufficient for classification)
Carcinogenicity :	Not classified (Conclusive but not sufficient for classification)
formaldehyde% (50-00-0)	
IARC group	1 - Carcinogenic to humans
formic acid % (64-18-6)	
NOAEL (chronic, oral, animal/male, 2 years)	400 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:
Reproductive toxicity :	Not classified (Conclusive but not sufficient for classification)
STOT-single exposure :	Not classified (Conclusive but not sufficient for classification)
STOT-repeated exposure :	Not classified (Conclusive but not sufficient for classification)
Glycollic acid (79-14-1)	
LOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity), Guideline: other:
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity), Guideline: other:, Guideline: other:
formic acid % (64-18-6)	
LOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

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formic acid % (64-18-6)		
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.244 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)	
Alcohols, C12-14, ethoxylated (68439-50-9)		
NOAEL (oral, rat, 90 days)	≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)	
Aspiration hazard : Not classified (Conclusive but not sufficient for classification)		
Glycollic acid (79-14-1)		
Viscosity, kinematic	6149 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)' Remarks on result: 'other:'	

### 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: 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 substances 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 %

#### 11.2.2. Other information

No additional information available

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Hazardous to the aquatic environment, short-term : Not classified (Conclusive but not sufficient for classification)

azuta)

Hazardous to the aquatic environment, long-term : Not classified (Conclusive but not sufficient for classification) (chronic)

,		
Glycollic acid (79-14-1)		
LC50 - Fish [1]	164 mg/l	
EC50 - Crustacea [1]	141 mg/l Test organisms (species): Daphnia magna	
formic acid % (64-18-6)		
LC50 - Fish [1]	68 mg/l	
EC50 - Crustacea [1]	365 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	1240 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
LOEC (chronic)	> 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
formaldehyde% (50-00-0)		
LC50 - Fish [1]	6.7 mg/l Test organisms (species): Morone saxatilis	
EC50 - Crustacea [1]	5.8 mg/l Test organisms (species): Daphnia pulex	
NOEC (chronic)	≥ 6.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic fish	≥ 48 mg/l Test organisms (species): Oryzias latipes Duration: '28 d'	

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Alcohols, C12-14, ethoxylated (68439-50-9)	
LC50 - Fish [1]	6.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
LC50 - Fish [2]	1.2 mg/l Test organisms (species): Cyprinus carpio
EC50 - Crustacea [1]	1.2 mg/l Test organisms (species): Daphnia magna

### 12.2. Persistence and degradability

HG descaler for appliances	
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### 12.3. Bioaccumulative potential

HG descaler for appliances		
Bioaccumulative potential	No bioaccumulation expected.	
Glycollic acid (79-14-1)		
Partition coefficient n-octanol/water (Log Pow) -1.1		
formic acid % (64-18-6)		
Partition coefficient n-octanol/water (Log Pow) -2.1		
formaldehyde% (50-00-0)		
Partition coefficient n-octanol/water (Log Pow) 0.779		

# 12.4. Mobility in soil

HG descaler for appliances	
Ecology - soil	Expected to be highly mobile in soil.

# 12.5. Results of PBT and vPvB assessment

### **HG** descaler for appliances

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

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

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: 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 substances 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 %.

### 12.7. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Regional legislation (waste) : Dispose of in accordance with relevant local regulations.

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Waste treatment methods

Ecology - waste materials

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

Product/Packaging disposal recommendations

: Empty containers retain product residue and can be hazardous. Do not dispose of the packaging without first carrying out the necessary cleaning. Empty containers should be

taken for recycling, recovery or waste in accordance with local regulation.

: Recycling is preferred to disposal or incineration. Avoid release to the environment.

European List of Waste (LoW) code 20 01 29\* - detergents containing dangerous substances

20 01 39 - plastics

HP Code : HP8 - "Corrosive:" waste which on application can cause skin corrosion.

# **SECTION 14: Transport information**

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID r	14.1. UN number or ID number			
UN 3265	UN 3265	UN 3265	UN 3265	UN 3265
14.2. UN proper shippin	g name			
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycollic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycollic acid)	Corrosive liquid, acidic, organic, n.o.s. (Glycollic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycollic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycollic acid)
Transport document descr	ription			
UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycollic acid), 8, II, (E)	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycollic acid), 8, II	UN 3265 Corrosive liquid, acidic, organic, n.o.s. (Glycollic acid), 8, II	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycollic acid), 8, II	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycollic acid), 8, II
14.3. Transport hazard	class(es)			
8	8	8	8	8
	8	8	8	8
14.4. Packing group	,			
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information	on available			

### 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : C3 Special provisions (ADR) : 274 Limited quantities (ADR) : 11 Excepted quantities (ADR) : E2 Packing instructions (ADR) : P001, IBC02 Mixed packing provisions (ADR) : MP15 Portable tank and bulk container instructions (ADR) : T11 Portable tank and bulk container special provisions : TP2, TP27

(ADR)

Tank code (ADR) : L4BN Vehicle for tank carriage : AT Transport category (ADR) : 2

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Hazard identification number (Kemler No.) : 80

Orange plates :

80 3265

Tunnel restriction code (ADR) : E

Transport by sea

Special provisions (IMDG) : 274 Limited quantities (IMDG) : 11 Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) : T11 Tank special provisions (IMDG) : TP2, TP27 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-B Stowage category (IMDG) : B Stowage and handling (IMDG) : SW2

Segregation (IMDG) : SGG1, SG36, SG49

Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

Air transport

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y840 PCA limited quantity max net quantity (IATA) : 0.5L PCA packing instructions (IATA) : 851 PCA max net quantity (IATA) : 1L CAO packing instructions (IATA) : 855 CAO max net quantity (IATA) : 30L Special provisions (IATA) : A3, A803 ERG code (IATA) : 8L

Inland waterway transport

Classification code (ADN) : C3
Special provisions (ADN) : 274
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID): C3Special provisions (RID): 274Limited quantities (RID): 1LExcepted quantities (RID): E2

Packing instructions (RID) : P001, IBC02
Mixed packing provisions (RID) : MP15
Portable tank and bulk container instructions (RID) : T11
Portable tank and bulk container special provisions : TP2, TP27

(RID)

Tank codes for RID tanks (RID): L4BNTransport category (RID): 2Colis express (express parcels) (RID): CE6Hazard identification number (RID): 80

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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### **SECTION 15: Regulatory information**

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

#### 15.1.1. 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 (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### **Detergent Regulation (648/2004)**

Labelling of contents	
Component	%
FORMALDEHYDE	

### **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)

# 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	
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	

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Abbreviations and acronyms:		
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	

Training advice

Other information

- : Normal use of this product shall imply use in accordance with the instructions on the packaging. Ensure personnel is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
- : DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3

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Full text of H- and EUH-statements:		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Carc. 1B	Carcinogenicity, Category 1B	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H226	Flammable liquid and vapour.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H311	Toxic in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H341	Suspected of causing genetic defects.	
H350	May cause cancer.	
H412	Harmful to aquatic life with long lasting effects.	
Muta. 2	Germ cell mutagenicity, Category 2	
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	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

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.