



# HG Bath shine | HG bathroom cleaner shine restorer

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Issue date: 04/05/2023 Revision date: 12/08/2024 Supersedes version of: 18/11/2023 Version: 3.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : HG Bath shine | HG bathroom cleaner shine restorer  
UFI : A2KX-CDF0-M00G-TQX2  
Product code : 145 ART  
Type of product : Detergent  
Product group : Trade product

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

##### Relevant identified uses

Intended for general public  
Main use category : Consumer use  
Use of the substance/mixture : Bathroom cleaners

##### Uses advised against

Restrictions on use : All other uses not recommended above

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

##### Manufacturer

HG International B.V.  
P.J. Oudweg 41  
NL 1314 CJ Almere  
The Netherlands  
T +31 (0)36 54 94 700  
[safety@hg.eu](mailto:safety@hg.eu), [www.hg.eu](http://www.hg.eu)

##### Importer

HG UKI LTD  
Weston Business Centre  
Parsonage Road  
UK CM22 6PU Takeley, Essex  
United Kingdom  
T +44 (0) 1206 822 744  
[www.hg.eu](http://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/Area	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]

Serious eye damage/eye irritation, Category 2 H319  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Causes serious eye irritation.

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### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning  
Hazard statements (CLP) : H319 - Causes serious eye irritation.  
Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P264 - Wash hands thoroughly after handling.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Child-resistant fastening : Not applicable  
Tactile warning : Not 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 and/or vPvB substances  $\geq 0.1\%$  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

### 3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS-No.: 68891-38-3 EC-No.: 500-234-8 REACH-no: 01-2119488639-16	$\geq 2 - < 10$	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	CAS-No.: 68155-07-7 EC-No.: 931-329-6 REACH-no: 01-2119490100-53	$\geq 0.1 - < 1$	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	CAS-No.: 52-51-7 EC-No.: 200-143-0 EC Index-No.: 603-085-00-8	$\geq 0.001 - < 1$	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10)
Diphenyl ether substance with a Community workplace exposure limit	CAS-No.: 101-84-8 EC-No.: 202-981-2 REACH-no: 01-2119472545-33	$\geq 0.001 - < 0.1$	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
benzaldehyde substance with a Community workplace exposure limit	CAS-No.: 100-52-7 EC-No.: 202-860-4 EC Index-No.: 605-012-00-5 REACH-no: 01-2119455540-44	$< 0.001$	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 STOT SE 3, H335

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (Conc. (% w/w))
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS-No.: 68891-38-3 EC-No.: 500-234-8 REACH-no: 01-2119488639-16	(5 ≤ C < 10) 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	: 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 after eye contact	: Eye irritation.
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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.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Explosion hazard	: Intense heat may cause container to burst.
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide. Nitrogen oxides. Sulphur oxides. Metallic oxides.

### 5.3. Advice for firefighters

Precautionary measures fire	: Runoff from fire control or dilution water may cause pollution.
Firefighting instructions	: Control run-off water by containing and keeping it out of sewers and watercourses. Do not enter fire area without proper protective equipment, including respiratory protection.
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. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
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#### For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing mist, vapours. Do not touch or walk on the spilled product.

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### 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 : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment.

### 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. Dilute small spillage well and wash away with large quantities of water.
- 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".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : 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

- Technical measures : Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Store locked up. Store in dry, cool, well-ventilated area.
- 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.
- Packaging materials : Store always product in container of same material as original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

Diphenyl ether (101-84-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Diphenyl ether
IOEL TWA	7 mg/m <sup>3</sup>
	1 ppm
IOEL STEL	14 mg/m <sup>3</sup>
	2 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164

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Diphenyl ether (101-84-8)	
Ireland - Occupational Exposure Limits	
Local name	Diphenyl ether (vapour)
OEL TWA	7 mg/m <sup>3</sup>
	1 ppm
OEL STEL	14 mg/m <sup>3</sup>
	2 ppm
Remark	IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
benzaldehyde (100-52-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL STEL	17.4 mg/m <sup>3</sup>

## 8.2. Exposure controls

### 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.

### Personal protection equipment

#### Personal protective equipment:

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

#### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Safety glasses

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses with side shields	Normal use conditions		EN 166

### Skin protection

#### Skin and body protection:

If there is a risk of liquid being splashed : Wear suitable protective clothing

Skin and body protection	
Type	Standard
Long sleeved protective clothing	
Chemical resistant safety shoes	EN ISO 20345

#### Hand protection:

Protective gloves

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

### Respiratory protection

#### Respiratory protection:

No respiratory protection needed under normal use conditions

### 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	: Green.
Odour	: Floral.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: 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
pH	: 9.5
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 730 – 960 mPa·s
Solubility	: Soluble in the following materials: cold water and hot water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1.045
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.

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### 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.

## 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)

#### Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	≥ 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:

#### Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LD50 dermal	1600 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 5000 mg/l

#### Diphenyl ether (101-84-8)

LD50 oral rat	2830 mg/kg Source: ECHA
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#### Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral))
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit

#### benzaldehyde (100-52-7)

LD50 oral rat	≈ 1430 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1,33 - 1,54
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit
LC50 Inhalation - Rat	1 – 5 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)
LC50 Inhalation - Rat (Dust/Mist)	> 1000 mg/l

Skin corrosion/irritation : Not classified (Conclusive but not sufficient for classification)  
pH: 9.5  
Serious eye damage/irritation : Causes serious eye irritation.  
pH: 9.5  
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)  
Reproductive toxicity : Not classified (Conclusive but not sufficient for classification)  
STOT-single exposure : Not classified (Conclusive but not sufficient for classification)

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<b>Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>benzaldehyde (100-52-7)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified (Conclusive but not sufficient for classification)
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)</b>	
LOAEL (oral, rat, 90 days)	25 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
NOAEL (oral, rat, 90 days)	> 225 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
<b>Diphenyl ether (101-84-8)</b>	
NOAEL (dermal, rat/rabbit, 90 days)	1000 mg/kg bodyweight Animal: rat
<b>Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)</b>	
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)

Aspiration hazard : Not classified (Conclusive but not sufficient for classification)

### 11.2. Information on other hazards

#### 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 %

## 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 (Conclusive but not sufficient for classification)

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

<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)</b>	
LC50 - Fish [1]	7.1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	7.4 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	27.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	0.27 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.14 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'
NOEC chronic algae	0.95 mg/l Scenedesmus subspicatus
<b>Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)</b>	
EC50 - Crustacea [1]	1.4 mg/l Test organisms (species): Daphnia magna



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<b>Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)</b>	
EC50 72h - Algae [1]	0.25 mg/l Test organisms (species): Skeletonema costatum
EC50 72h - Algae [2]	0.37 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	0.88 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.27 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	21.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '49 d'
<b>Diphenyl ether (101-84-8)</b>	
LC50 - Fish [1]	4.2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	1.96 mg/l Test organisms (species): Daphnia magna
ErC50 algae	0.455 mg/l Source: ECHA
<b>Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)</b>	
LC50 - Fish [1]	≈ 2.4 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	≈ 3.2 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	≈ 7.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	≈ 2.2 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	≈ 0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≈ 0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≈ 0.32 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'
NOEC chronic algae	2 mg/l
<b>benzaldehyde (100-52-7)</b>	
LC50 - Fish [1]	1.07 mg/l
EC50 - Crustacea [1]	19.7 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	23.7 mg/l waterflea
EC50 - Other aquatic organisms [2]	> 100 mg/l
EC50 72h - Algae [1]	33.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	8.05 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

## 12.2. Persistence and degradability

<b>HG Bath shine   HG bathroom cleaner shine restorer</b>	
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.

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Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	
Persistence and degradability	Rapidly degradable
Chemical oxygen demand (COD)	0.51 g O <sub>2</sub> /g substance
Biodegradation	80 % (OECD 302B method)
Additional information	95 % biodegradation (OECD 301E method)

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
Persistence and degradability	Rapidly degradable

Diphenyl ether (101-84-8)	
Persistence and degradability	Rapidly degradable

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)	
Persistence and degradability	Rapidly degradable
Biodegradation	92.5 % (OECD 301B method)

benzaldehyde (100-52-7)	
Persistence and degradability	Rapidly degradable

### 12.3. Bioaccumulative potential

HG Bath shine   HG bathroom cleaner shine restorer	
Bioaccumulative potential	No bioaccumulation expected.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	
Partition coefficient n-octanol/water (Log Pow)	0.3

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
Partition coefficient n-octanol/water (Log Pow)	0.18

Diphenyl ether (101-84-8)	
Partition coefficient n-octanol/water (Log Pow)	4.21 Source: ECHA

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) (68155-07-7)	
Partition coefficient n-octanol/water (Log Pow)	3.1

benzaldehyde (100-52-7)	
Partition coefficient n-octanol/water (Log Pow)	1.48

### 12.4. Mobility in soil

HG Bath shine   HG bathroom cleaner shine restorer	
Ecology - soil	Expected to be highly mobile in soil.

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
Mobility in soil	388.3 – 1416 Source: ECHA

### 12.5. Results of PBT and vPvB assessment

HG Bath shine   HG bathroom cleaner shine restorer	
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	

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### 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 waste regulation

: Dispose of in accordance with relevant local regulations.

Waste treatment methods

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

Sewage disposal recommendations

: Do not flush down sewers. Disposal must be done according to official regulations.

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. Disposal must be done according to official regulations.

Additional information

: Do not re-use empty containers.

Ecological waste information

: Recycling is preferred to disposal or incineration.

European List of Waste (LoW, EC 2000/532)

: 20 01 29\* - detergents containing dangerous substances

20 01 39 - plastics

15 01 02 - plastic packaging

HP Code

: HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

## SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated for transport				
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

**Overland transport**

Not regulated

**Transport by sea**

Not regulated

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### Air transport

Not regulated

### Inland waterway transport

Not regulated

### Rail transport

Not regulated

## 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 (1005/2009)

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

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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

#### Allergenic fragrances > 0.01 %:

TERPINEOL

CAMPHOR

LIMONENE

Labelling of contents	
Component	%
anionic surfactants	≥5-<15%
non-ionic surfactants	<5%
2-BROMO-2-NITROPROPANE-1,3-DIOL	
perfumes	
TERPINEOL	
CAMPHOR	
LIMONENE	

##### 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)

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### 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)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes:

UFI : Unique Formula Identifier.

Indication of changes		
Section	Changed item	Comments
	Reference number	Modified
	Supersedes version of	Added
	Revision date	Modified
3	Composition/information on ingredients	Modified
4.1	First-aid measures for first aider	Added
4.1	First-aid measures general	Added
5.1	Unsuitable extinguishing media	Added
5.2	Explosion hazard	Added
5.3	Precautionary measures fire	Added
5.3	Firefighting instructions	Added
6.1	General measures	Added
6.1	Protective equipment	Added
6.1	Emergency procedures	Added
6.3	For containment	Added
7.1	Additional hazards when processed	Added
7.2	Storage conditions	Modified
7.2	Packaging materials	Added
7.2	Technical measures	Added
8.2	Skin and body protection	Modified
8.2	Eye protection	Modified
9	Flammability	Removed
13.1	European List of Waste (LoW, EC 2000/532)	Modified
13.1	Additional information	Added
13.1	Sewage disposal recommendations	Added
13.1	Product/Packaging disposal recommendations	Added

### 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

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Abbreviations and acronyms:	
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

Training advice

: 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.

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### Other information

: **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. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
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.