Heroes Mould Remover

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

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

1.1. Product identifier

Product form	:	Mixture
Product name	:	Heroes Mould Remover
Product code	:	R360
Product group	:	End product

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

1.2.1. Relevant identified uses

Main use category	:	Consumer use
Use of the substance/mixture	:	Helps to remover Mould & Mildew

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Promovio Ltd
Unit 1 Syke Side Dr, Altham, Altham Business Park, Accrington, England BB5 5YE
01254 936151 hello@heroespaint.co.uk

1.4. Emergency telephone number

Emergency number	:	01254 936151 Office Hours Only - NHS 111 (England, Wales and Scotland). Northern Ireland contact your GP or GP out of hours service.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB CLP (SI 2019:720 as amended)

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to GB CLP (SI 2019:720 as amended)

Hazard statements (GB CLP)	:	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (GB CLP)	:	P102 - Keep out of reach of children. P273 - Avoid release to the environment. P262 - Do not get in eyes, on skin, or on clothing. P280 - Wear protective gloves, protective clothing, eye protection, face protection and hearing protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P332+P313 - If skin irritation occurs: Get medical advice or attention. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice or attention. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P314 - Get medical advice or attention. if you feel unwell. P501 - Dispose of contents and container to a hazardous or special waste collection point, in accordance with local, regional, national and international regulations.

2.3. Other hazards

Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of UK REACH regulation, in accordance with Annex XIII	QUARTERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES (68424-85-1), PROPAN-2-OL (67-63-0), BIPHENYL-2-OL (90-43-7)
Substance(s) not meeting the vPvB criteria of UK REACH regulation, in accordance with Annex XIII	QUARTERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES (68424-85-1), PROPAN-2-OL (67-63-0), BIPHENYL-2-OL (90-43-7)

Results of Endocrine Disruptor assessment

Component	
Substance(s) not considered as endocrine disrupting. They are not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, nor identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP	QUARTERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES(68424-85-1), PROPAN-2-OL(67-63-0), BIPHENYL-2-OL(90-43-7)

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GB CLP (SI 2019:720 as amended)
QUARTERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES	CAS-No.: 68424-85-1 EC-No.: 270-325-2 REACH-no: 01-2119983287-23	0.98 – 1.99	Acute Tox. 4 (Oral), H302 (ATE=426 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PROPAN-2-OL	CAS-No.: 67-63-0 EC-No.: 200-661-7 REACH-no: 01-2119457558-25	0.049 – 0.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
BIPHENYL-2-OL	CAS-No.: 90-43-7 EC-No.: 201-993-5 UK Index-No.: 604-020-00-6 REACH-no: 01-2119511183-53	0.049 – 0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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 : Get medical advice/attention if you feel unwell.
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 eyes with water as a precaution.
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 inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact : May cause an allergic skin reaction.
Symptoms/effects after eye contact : redness, itching, tears. stinging.
Symptoms/effects after ingestion : May cause irritation to the digestive tract. Abdominal pain, nausea.

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. Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

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.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth.
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

Precautions for safe handling : Ensure good ventilation of the work station. 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

Storage conditions : Keep cool. Keep container tightly closed.
Storage area : Store in a well-ventilated place.

Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

Helps to remover Mould & Mildew.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

PROPAN-2-OL (67-63-0)	
United Kingdom - Occupational Exposure Limits	
Local name	Propan-2-ol
WEL TWA (OEL TWA)	999 mg/m³
	400 ppm
WEL STEL (OEL STEL)	1250 mg/m³
	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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:
Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:
Safety glasses

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Clear.
Odour	:	Barely perceptible odour.
Odour threshold	:	Not available
pH	:	≈ 8
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	Not available
Flash point	:	Not available
Flammability	:	Non flammable
Explosive limits	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Relative vapour density at 20°C	:	Not available
Relative density	:	1
Density	:	Not available
Solubility	:	soluble in water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Viscosity, kinematic	:	Not available
Explosive properties	:	Not available

9.2. Other information

Particle characteristics	:	Not applicable

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). Heat.

10.5. Incompatible materials

Anionic surfactants :

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 toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

QUARTERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES (68424-85-1)	
LD50 oral rat	426 mg/kg Source: National Library of Medicine

PROPAN-2-OL (67-63-0)	
LD50 oral rat	5840 mg/kg Source: ECHA
LD50 dermal rabbit	12800 mg/kg Source: ECHA

BIPHENYL-2-OL (90-43-7)	
LD50 oral rat	2733 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 36 mg/m³

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: ≈ 8

QUARTERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES (68424-85-1)	
pH	6 – 9

BIPHENYL-2-OL (90-43-7)	
pH	5.8 Concentration: 1 other:

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: ≈ 8

QUARTERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES (68424-85-1)	
pH	6 – 9

BIPHENYL-2-OL (90-43-7)	
pH	5.8 Concentration: 1 other:

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

PROPAN-2-OL (67-63-0)	
IARC group	3 - Not classifiable

BIPHENYL-2-OL (90-43-7)	
NOAEL (chronic, oral, animal/male, 2 years)	200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Guideline: other:, Guideline: other:, Guideline: other:
NOAEL (chronic, oral, animal/female, 2 years)	≥ 647 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Guideline: other:, Guideline: other:, Guideline: other:
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

PROPAN-2-OL (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.

BIPHENYL-2-OL (90-43-7)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

QUARTERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES (68424-85-1)	
Viscosity, kinematic	74 – 52 mm²/s

Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short–term (acute) : Not classified (Based on available data, the classification criteria are not met).

Hazardous to the aquatic environment, long–term (chronic) : Harmful to aquatic life with long lasting effects.

QUARTERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES (68424-85-1)	
LC50 - Fish [1]	0.51 mg/l Source: The ECOTOXicology database
EC50 - Crustacea [1]	0.0059 mg/l Source: The ECOTOXicology database
EC50 - Other aquatic organisms [1]	0.016 mg/l
EC50 72h - Algae [1]	0.02 mg/l
EC50 96h - Algae [1]	4.813 mg/l Source: Ecological Structure Activity Relationships
NOEC chronic fish	0.0322 mg/l
NOEC chronic crustacea	0.025 mg/l

PROPAN-2-OL (67-63-0)	
LC50 - Fish [1]	9640 mg/l Source: ECHA

BIPHENYL-2-OL (90-43-7)	
LC50 - Fish [1]	4.5 mg/l
EC50 72h - Algae [1]	3.57 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	1.35 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	3.78 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	1.32 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	0.022 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.009 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.036 mg/l Test organisms (species): Pimephales promelas Duration: '21 d'

12.2. Persistence and degradability

Heroes Mould Remover	
Persistence and degradability	Readily biodegradable.
QUARTERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES (68424-85-1)	
Persistence and degradability	Not rapidly degradable
PROPAN-2-OL (67-63-0)	
Persistence and degradability	Not rapidly degradable
BIPHENYL-2-OL (90-43-7)	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

Heroes Mould Remover	
Bioaccumulative potential	No bioaccumulation potential.
QUARTERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES (68424-85-1)	
Partition coefficient n-octanol/water (Log Pow)	3.91 Source: Quantitative Structure Activity Relation
PROPAN-2-OL (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0.05 Source: ICSC
BIPHENYL-2-OL (90-43-7)	
Partition coefficient n-octanol/water (Log Pow)	3.09

12.4. Mobility in soil

Heroes Mould Remover	
Ecology - soil	Readily absorbed into the soil.
QUARTERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES (68424-85-1)	
Mobility in soil	1002 Source: EPI Suite

12.5. Results of PBT and vPvB assessment

Component	
QUARTERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16) ALKYL DIMETHYL, CHLORIDES (68424-85-1)	This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII
PROPAN-2-OL (67-63-0)	This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII
BIPHENYL-2-OL (90-43-7)	This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII

12.6. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of in accordance with relevant local regulations.
Product/Packaging disposal recommendations : Recycle following cleaning.
Additional information : Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Transport document description				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
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

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. National regulations

UK REACH Annex XVII (Restriction List)

This product contains no substance(s) listed on UK REACH Annex XVII (Restriction List) equal to or above the level of SDS disclosure

UK REACH Annex XIV (Authorisation List)

This product contains no substance(s) listed on UK REACH Annex XIV (Authorisation List) equal to or above the 0.1% level of disclosure

UK REACH Candidate List (SVHC)

This product contains no substance(s) listed on the UK REACH Candidate List (SVHC).

GB PIC Regulation (Prior Informed Consent)

This product contains no substance(s) listed on the GB PIC List equal to or above the level of SDS disclosure

POP Regulation (Persistent Organic Pollutants)

This product contains no substance(s) listed on the GB POP List equal to or above the level of SDS disclosure

Ozone Regulation (S.I. No. 168 of 2015)

This product contains no substance(s) listed on the GB Ozone Depletion List equal to or above the level of SDS disclosure

Control of Poisons and Explosives Precursors Act

This product contains no substance(s) listed on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

Drug Precursors Regulation (EC 273/2004)

This product contains no substance(s) listed on the GB Drug Precursors List equal to or above the level of SDS disclosure

15.1.2. Other Information

15.2. Chemical safety assessment

No additional information available

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

Abbreviations and acronyms:	
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 Abstracts Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
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
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of H- and EUH-statements:	
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), UK

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.