

AquaSolve

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

1.1. Product identifier

Trade name

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Article No.

230840

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

Relevant identified uses

Cleaning of spray guns, water-based
The product is intended for professional use.

1.3. Details of the supplier of the safety data sheet

Supplier

Hedson Technologies AB

Address

Hammarv. 4
SE - 232 37 Arlöv
Sweden

Telephone

+46 40 53 42 00

Email

info@hedson.se

1.4. Emergency telephone number

NHS 111

Available outside office hours

Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Acute toxicity, oral, hazard category 4
Skin irritation, hazard category 2
Eye irritation, hazard category 2
Acute toxicity, inhalation, hazard category 3

Hazard statements

H302, H315, H319, H331

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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302 + P352 IF ON SKIN: Wash with plenty of water/.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container to in accordance with local/regional/national/international regulations.

More information

Contains: 2-Butoxyethanol

2.3. Other hazards

When hot, product develops flammable vapours. Vapours may form explosive mixture with air.
This product does not contain any PBT or vPvB substances.
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
2-butoxyethanol; ethylene glycol monobutyl ether	111-76-2 203-905-0 - 603-014-00-0	75 - 100%	Acute Tox. 4 - oral, Skin Irrit. 2, Eye Irrit. 2, Acute Tox. 3 - inhalation	H302, H315, H319, H331 - -	inhalation: ATE = 3 mg/L (Vapours); oral: ATE=1 200 mg/kg bw
propan-2-ol; isopropyl alcohol; isopropanol	67-63-0 200-661-7 01-2119457558-25 603-117-00-0	<5%	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 - narcosis	H225, H319, H336 - -	-
Methyl-1H-benzotriazole	29385-43-1 249-596-6 - -	<2%	Acute Tox. 4 - oral, Eye Irrit. 2, Aquatic Chronic 3	H302, H319, H412 - -	-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.
Regulation (EC) No. 648/2004 (Detergents regulation) : non-ionic surfactants ≥ 30 %

SECTION 4: First aid measures

4.1. Description of first aid measures

Immediately remove contaminated clothing. If medical advice is needed, have product container or label at hand.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

If breathing is irregular or stopped, administer artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing.

Skin contact

Wash with plenty of water/soap. If skin irritation occurs: Get medical help.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice.

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

Inhalation

Toxic if inhaled.

Vapours may irritate throat and respiratory system and cause headache, dizziness and dullness.

Skin contact

Causes skin irritation.

Harmful in contact with skin.

Symptoms like headache, fatigue and nausea may appear.

Eye contact

Causes serious eye damage. Causes eye irritation.

Ingestion

Harmful if swallowed, may cause blood disorders, changes in metabolism, cardiovascular disease

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

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

Strong water jet

5.2. Special hazards arising from the substance or mixture

Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Measures in case of fire

Use water to keep fire exposed containers cool and disperse vapours.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothes. For personal protection, see section 8.

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6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.
Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

For personal protection, see section 8.
For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes.

Provide adequate ventilation as well as local exhaustion at critical locations.

Eye wash facilities and emergency shower must be available when handling this product. Avoid breathing vapours/spray.

General hygiene

Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product.

Wash hands before breaks and after work. Take off immediately all contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.

Suitable floor material: solvent-resistant

Keep/Store only in original container.

Protect against direct sunlight.

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures. Risk of vapour concentration on the floor and in low-lying areas. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

Prolonged contact with air may cause formation of explosive peroxides. Hygroscopic.

Store separated from: Food and feedingstuffs

Incompatible materials: Do not store together with oxidizing and self-igniting products.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Source	Remark	Year
2-butoxyethanol; ethylene glycol monobutyl ether	111-76-2 203-905-0	25 123	50 246	EH40/2005	Sk, BMGV	2020
propan-2-ol; isopropyl alcohol; iso- propanol	67-63-0 200-661-7	400 999	500 1250	EH40/2005	-	2020

8.2. Exposure controls

Appropriate engineering controls

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Eye / face protection

If risk of splashing, wear safety goggles or face shield.

Hand protection

Wear protective gloves.

If signs of wear and tear are noticed then the gloves should be replaced.

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Use protective gloves made of:

Butyl rubber.

Thickness of the glove material : 0.5 mm

Permeation time (maximum wear duration): ≥ 8 hours

FKM (fluoro rubber)

Thickness of the glove material : 0.4 mm

Permeation time (maximum wear duration): ≥ 8 hours

Other skin protection

Wear special protective clothing.

Material, solvent-resistant

Respiratory protection

In case of inadequate ventilation: Wear suitable respiratory protection.

Filter type: A

Thermal hazards

No data available.

Environmental exposure controls

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Colourless.

Odour

Characteristic.

Melting point / freezing point

No data available

Boiling point or initial boiling point and boiling range

No data available

Flammability

No data available

Lower and upper explosion limit

No data available

Flash point

No data available

Auto-ignition temperature

No data available

Decomposition temperature

No data available

pH

No data available

Kinematic viscosity

No data available

Solubility

No data available

Water solubility

Water-soluble.

Partition coefficient n-octanol/water

No data available

Vapour pressure

No data available

Density and/or relative density

No data available

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Relative vapour density

No data available

Particle characteristics

No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive under normal conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

May form explosive peroxides.

May cause strong formation of hydrogen by contact with amphoteric metals (e.g. alumina, lead, zinc)
- danger of explosion.

Do not mix with: Oxidising substances

10.4. Conditions to avoid

Heat, sparks, flames.

Avoid high temperatures or direct sunlight.

10.5. Incompatible materials

Strong oxidising agents.

Alkalis.

light metals .

Aluminium

10.6. Hazardous decomposition products

Not determined.

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if swallowed.

Toxic if inhaled.

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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
2-butoxyethanol; ethylene glycol monobutyl ether 111-76-2 / 203-905-0	LD50	1414 mg/kg	oral	-	Guinea pig , male / female	-	-
2-butoxyethanol; ethylene glycol monobutyl ether 111-76-2 / 203-905-0	LD50	1746 mg/kg	oral	-	Rat , male	-	-
2-butoxyethanol; ethylene glycol monobutyl ether 111-76-2 / 203-905-0	LC0	> 3,1 mg/L	Inhalation	1 hour(s)	-	-	vapour
2-butoxyethanol; ethylene glycol monobutyl ether 111-76-2 / 203-905-0	LD50	> 2000 mg/kg	dermal	-	Guinea pig	OECD TG 402	-

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

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STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Not classified as dangerous to the environment.

12.2. Persistence and degradability

Persistence and degradability

Product / Substance name CAS / EC no.	Type of test	Duration	Result	Exposure route	Degradation	Method / Guideline
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	-	5 days	53 %	-	Readily biodegradable.	-
Methyl-1H-benzotriazole 29385-43-1 / 249-596-6	OECD 301D	28 days	77 %	-	-	-
Methyl-1H-benzotriazole 29385-43-1 / 249-596-6	79/831/EEC, Annex V, Manometric Respiration Test	28 days	4 %	-	No biodegradation observed under test conditions.	-
2-butoxyethanol; ethylene glycol monobutyl ether 111-76-2 / 203-905-0	-	28 days	90 %	Aerobic biological treatment	Readily biodegradable.	OECD 301B

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

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Product / Substance name CAS / EC no.	LogKow / LogPow	Temperature	Remark
Methyl-1H-benzotriazole 29385-43-1 / 249-596-6	1.71	25 °C	-
2-butoxyethanol; ethylene glycol monobutyl ether 111-76-2 / 203-905-0	0.81	25 °C	-
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	-	-	No indication of bioaccumulation potential.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of as hazardous waste in compliance with local and national regulations.

Consult the appropriate local waste disposal expert about waste disposal.

Prevent entry into drains.

Waste code	Waste description
20 01 29*	detergents containing hazardous substances

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

Other

The waste code is a recommendation.

SECTION 14: Transport information

14.1. UN number

No dangerous good in sense of these transport regulations.

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14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

EU Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions) : 3, 40, 75

Regulation (EC) No. 648/2004 (Detergents regulation) : non-ionic surfactants $\geq 30\%$

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National regulations

EH40/2005 Workplace exposure limits.

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Control of Substances Hazardous to Health Regulations 2002 (as amended).

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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SECTION 16: Other information

Changes to previous revision

Amendments made in accordance with Commission regulation (EU) 2020/878 of 18 June 2020 amending Annex II to REACH.

Abbreviations

PBT = Persistent, Bioaccumulative and Toxic.

vPvB = very Persistent and very Bioaccumulative.

CLP: Classification, Labelling and Packaging

REACH Registration, Evaluation and Authorization of Chemicals

ATE = Acute Toxicity Estimate.

LD50: Lethal dose for 50 % of the test population (lethal median dose).

CAS: Chemical Abstracts Service

Phrase meaning

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

Skin Irrit. 2 - Skin irritation, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

Acute Tox. 3 - inhalation - Acute toxicity, inhalation, hazard category 3

Flam. Liq. 2 - Flammable liquids, hazard category 2

STOT SE 3 - narcosis - Specific Target Organ Toxicity — Single exposure, hazard category 3 - narcosis

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.