

DRESTER BY HEDSON BIO-291

Version number: 2.2

Issued: 2023-11-22

Replaces SDS: 2017-05-16

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

1.1. Product identifier

Trade name

DRESTER BY HEDSON BIO-291

Article No.

BIO-291

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

Relevant identified uses

Detergent specifically developed for the DRESTER Wheel Washer

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

Serious eye damage, hazard category 1
Skin irritation, hazard category 2
Specific Target Organ Toxicity — Single exposure, hazard category 3

Hazard statements

H315, H318, H335

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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing dust.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water/soap.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

2.3. Other hazards

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
Silicic acid, sodium salt	1344-09-8 215-687-4 - -	15 - 25%	Skin Irrit. 2, Eye Dam. 1, STOT SE 3	H315, H318, H335 - -	-
Disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4 239-707-6 01-2120754771- 50-xxxx -	1 - <5%	Ox. Sol. 2, Acute Tox. 4 - oral, Eye Dam. 1	H272, H302, H318 - -	-
Sodium carbonate	497-19-8 207-838-8 - 011-005-00-2	1 - <5%	Eye Irrit. 2	H319 - -	-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Immediately remove contaminated clothing. Get medical advice/attention if you feel unwell.

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.

Skin contact

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

Eye contact

Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyes wide apart. Immediately transport to hospital or eye specialist.

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

Aqueous solution causes irritations of eyes, skin and mucous membranes.

Inhalation

May cause respiratory irritation.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye damage.

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

The product itself does not burn.

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

During fire, toxic gases (CO, CO₂) are formed.

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

Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothes. Provide adequate ventilation. Avoid dust formation. Use personal protective equipment as required.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

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6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation.

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

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Avoid handling which leads to dust formation. Avoid contact with skin and eyes. Do not breathe dust.

General hygiene

Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Protect from moisture. Unsuitable containers: aluminium. Zinc .
Incompatible materials: Acids , Light metal . The product develops hydrogen in an aqueous solution in contact with metals.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

Observe occupational exposure limits and minimise the risk of inhalation of dust.

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Source	Remark	Year
Dust	- -	- 10	EH40 (4th edition)	Inhalable	-
Dust	- -	- 4	EH40 (4th edition)	Respirable	-

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8.2. Exposure controls

Appropriate engineering controls

Provide adequate general and local exhaust ventilation. An eye wash bottle must be available at the work site.

Eye / face protection

Safety glasses with side-shields conforming to EN166.

Hand protection

Wear suitable gloves tested to EN374.

Use protective gloves made of: NR (natural rubber, natural latex)

Thickness of the glove material : > 0,6 mm

Permeation time (maximum wear duration): 480 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Other skin protection

Long sleeved clothing.

Respiratory protection

In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

Environmental exposure controls

Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Powder

Colour

White

Odour

Perfume.

Melting point / freezing point

No data available

Boiling point or initial boiling point and boiling range

No data available

Flammability

No data available

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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

10,5 (1%)

Kinematic viscosity

No data available

Solubility

No data available

Water solubility

miscible

Partition coefficient n-octanol/water

No data available

Vapour pressure

No data available

Density and/or relative density

~ 650 kg/m³

Method

Bulk density

Relative vapour density

No data available

VOC %

0 %

Particle characteristics

No data available

9.2. Other information

No data available

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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

Exothermic reaction with: Strong acids.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

The product develops hydrogen in an aqueous solution in contact with metals.

SECTION 11: Toxicological information

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

Acute toxicity

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

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

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.

STOT-single exposure

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

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STOT-repeated exposure

May cause respiratory irritation.

Aspiration hazard

Not applicable.

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

The surfactants contained in this mixture 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

No data available

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

Other adverse effects

low hazard to waters .

Other

Do not flush into surface water or sanitary sewer system.

SAFETY DATA SHEET
according to UK REACH

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of contents/container to an appropriate recycling or disposal facility. Dispose of waste according to applicable legislation. Where possible recycling is preferred to disposal or incineration.

Packaging

Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

Waste code	Waste description
07 06 99	wastes not otherwise specified

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

SECTION 14: Transport information

14.1. UN number

No dangerous good in sense of these transport regulations.

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

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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. 648/2004 (Detergents regulation) : non-ionic surfactants < 5% , phosphates
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 as amended

Control of Substances Hazardous to Health Regulations (COSHH)

The GB Classification Labelling and Packaging Regulation (GB CLP) - Retained CLP Regulation (EU) No. 1272/2008 as amended for Great Britain

UK Statutory Instrument 2021 No. 904 The REACH etc. (Amendment) Regulations 2021

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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

CAS: Chemical Abstracts Service

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Phrase meaning

Eye Dam. 1 - Serious eye damage, hazard category 1

Skin Irrit. 2 - Skin irritation, hazard category 2

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

Ox. Sol. 2 - Oxidising solids, hazard category 2

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

Eye Irrit. 2 - Eye irritation, hazard category 2

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.