

Green Virucidal Cleaner and Disinfectant

v1.2.2 11-11-2020

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

1.1 Product identifier

Product Name Hadron Green Virucidal Disinfectant

Cleaner-UDF2/3

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

Use of the substance/mixture Disinfectant

1.3 Details of the supplier of the safety data sheet

Company Hadron Group Ltd.

Address Jubilee House

Gelders Hall Road

Shepshed Loughborough LE12 9NH

Telephone +44 800 068 1331

Email address <u>info@hadrongroup.co.uk</u>

Emergency telephone number +44 800 068 1331

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

CLP This product is not classified

2.2 Label elements

The substance/mixture does not meet the criteria for classification, but the following labelling must be applied.

EUH210 Safety data sheet available on request

2.3 Other hazards

PBT/vPvB This product does not contain any PBT or

vPvB substances



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Section 3: Composition/information on ingredients

3.1 Mixtures

This product contains Water

Surfactants

Active Substances (±) Tartaric acid, Lactic

acid, Peppermint oil, Lavender oil.

CLP:

%	CAS-No.	EC No.	REACH Reg No.	Chemical Name	Hazard Classification
5-<10	64-17-5	200-578-6	01-2119457610-43-	Ethanol*	Flam. Liq. 2; H225 Eye Irrit. 2; H319
1-<5	5131-66-8	225-878-4	01-2119475527-28-	3-Butoxypropan-2-ol	Eye Irrit. 2; H319 Skin Irrit. 2; H315

^{*}Concentration limits: >=50%: Eye Irrit. 2; H319

For full text of H-Statements refer to section 16.

Section 4: First aid measures

4.1 Description of first aid measures

First aid measures after:

Inhalation Move into fresh air and keep at rest

Skin contact Remove contaminated clothes and rinse

skin thoroughly with water.

Eye contact Immediately flush with plenty of water for at

least 15 minutes. Remove contact lenses and open eyelids widely. If irritation persists, seek medical attention.

Ingestion Immediately rinse mouth and drink plenty of

water. Keep person under observation. If person becomes uncomfortable seek hospital and bring

these instructions.

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

Symptoms/effects See section 11 for more detailed

information on health effects and symptoms

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

Use extinguishing measures that are

appropriate to local circumstances and the

surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards During fire, gases hazardous to health may

be formed.

5.3 Advice for firefighters

Protective equipment for firefighters Selection of respiratory protection for

firefighting: follow the general fire precautions indicated in the workplace.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions Avoid contact with eyes and prolonged skin

contact. Follow precautions for safe

handling described in this safety data sheet.

6.2 Environmental precautions

Environmental precautions Can enter the local sewage treatment plan

up till 256 kgs per day without risk.

Avoid discharge onto soil.

6.3 Methods and material for containment and cleaning up

Method for cleaning up

Absorb with absorbing material or flush into

sewer.

6.4 References to other sections

For personal protection refer to section 8

For disposal considerations refer to section 13

Section 7: Handling and storage

7.1 Precautions for safe handling

Personal precautions Avoid contact with skin and eyes. Observe

good chemical hygiene practises.



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Technical measures Keep the workplace clean.

Technical precautions Mechanical ventilation may be required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas No special precautions

Storage conditions Store in closed original container at

temperatures between 5°C and 30°C

7.3 Specific end use(s)

Not relevant.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:

CAS-No.	Chemical name:	As	Exposure limits	Туре	Notes	References
64-17-5	Ethanol	-1000ppm	1920 mg/m3	TWA	-	EH40

Notes: EH40: EH40/2005

8.2 Exposure controls

Engineering measures: Provide adequate ventilation.

Respiratory equipment Under normal conditions of use respiration

protection should not be required.

Hand protection Under normal conditions of use gloves are

not normally required.

Eye protection Under normal conditions of use eye

protection is not required.

Hygiene measures Wash hands after handling. Change

contaminated clothing.

Environmental Exposure Controls Not available

DNEL 3-Butoxypropan-2-ol:

Workers - Dermal; Long term systemic effects: 52 mg/kg/day Workers - Inhalation; Long term systemic effects: 147 mg/m³ Consumer - Dermal; Long term systemic effects: 22 mg/kg/day Consumer - Inhalation; Long term systemic effects: 43 mg/m³ Consumer - Oral; Long term systemic effects: 12.5 mg/kg/day



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Ethanol:

Workers Exposure routes: Inhalation. Potential health effects:

Acute effects,

Local effects. Value: 1900 mg/m₃

Workers. Exposure routes: Skin contact. Potential health

effects: Chronic

effects. Value: 343 mg/kg

Workers. Exposure routes: Inhalation. Potential health effects:

Chronic

effects. Value: 950 mg/m3

Consumers. Exposure routes: Inhalation. Potential health

effects: Acute

effects, Local effects. Value: 950 mg/m3

Consumers. Exposure routes: Skin contact. Potential health

effects: Chronic

effects. Value: 206 mg/kg

Consumers. Exposure routes: Inhalation. Potential health

effects: Chronic

effects. Value: 114 mg/m3

Consumers. Exposure routes: Ingestion. Potential health

effects: Chronic effects. Value: 87 mg/kg

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Liquid

Odour Not available

pH 2.3-2.5

Melting point/range Not applicable

Boiling point/range ~ 100°C

Flash point 45.5°C – No sustained combustibility

Auto-ignition temperature

Decomposition temperature

No data available

No data available

Flammability (solid, gas)

Not applicable

Vapour pressure No data available

Relative vapour density at 20°C No data available

Relative density ~ 1

Density 1-1.01

Solubility Miscible with water

Partition coefficient n-octanol/water (Log-

ow)

No data available

Viscosity, kinematic

Viscosity, dynamic

No data available

No data available



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Explosive properties

Oxidising properties

No data available

Explosive limits

No data available

9.2 Other information

No additional information available

Section 10: Stability and reactivity

10.1 Reactivity

None known

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Heating. Avoid Frost.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

None at ambient temperatures.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) Based on available data, the classification

criteria are not met.

Acute toxicity (dermal)

Based on available data, the classification

criteria are not met.

Acute toxicity (inhalation)

Based on available data, the classification

criteria are not met.

Skin corrosion/irritation Based on available data, the classification

criteria are not met.



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Serious eye damage/irritation Based on available data, the classification

criteria are not met.

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 Not classified STOT-repeated exposure Not classified Aspiration hazard Not classified

Inhalation Not relevant at normal room temperatures

Skin contact Prolonged contact may cause redness and

pain

Eye contact May irritate and cause redness and pain

Ingestion May irritate and cause malaise

Specific effects None known

Toxicological data Ethanol:

Acute Toxicity (Dermal LD50): >2000 mg/kg

(Rabbit)

Acute Toxicity (Oral LD50): >2000 mg/kg

(Rat)

3-Butoxypropan-2-ol:

Acute Toxicity (Inhalation LC50): >3.5

mg/l/4h (inh-Rat)

Acute Toxicity (Dermal LD50): >2000 mg/kg

(Rat)

Acute Toxicity (Oral LD50): 3300 mg/kg

(Rat) Lactic acid:

Acute Toxicity (Oral LD50): 3730 mg/kg

(Rat)

(+)-Tartaric acid:

Acute Toxicity (Dermal LD50): > 2000

mg/kg (Rabbit)

Acute Toxicity (Oral LD50): > 2000 mg/kg

(Rat)



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Section 12: Ecological information

12.1 Toxicity

Ecotoxicity Ethanol:

LC50 (Fish/Leuciscus idus)/48 h: >100 mg/l EC50 (Daphnia/Daphnia magna)/24 h: >100 mg/l

3-Butoxypropan-2-ol:

LC50 (Fish/Poecilia reticulata)/96 h: 560-1000

mg/l

EC50 (Daphnia/Daphnia magna)/48 h: >1000

mg/l

(+)-Tartaric acid:

LC50 (Fish/Danio rerio)/96 h: > 100 mg/l EC50 (Algea/Selenastrum capricornutum)/72 h:

51.4 mg/l

12.2 Persistence and degradability

Degradability There are no data on the degradability of this

product. Readily biodegradable: Ethanol, (+)-Tartaric acid, Lactic acid, 3-Butoxypropan-2-ol

12.3 Bioaccumulative potential

Bioaccumulative potential The product is not expected to bioaccumulate.

(+)-Tartaric acid, Lactic acid, Ethanol: log Kow <

1

12.4 Mobility in soil

Bioaccumulative potential Mobile. (+)-Tartaric acid, Lactic acid, Ethanol: log

Kow ≤ 1

12.5 Results of PBT and vPvB assessment

PBT/vPvB This product does not contain any PBT or vPvB

substances.

12.6 Other adverse effects

None known.

Section 13: Disposal considerations

13.1 Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

Waste from residues EWC-code: 07 04 99



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Section 14: Transport information

This product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR, RID)

14.1 UN number -

14.2 UN proper shipping name -

14.3 Transport hazard class(es) -

14.4 Packing group -

14.5 Environmental hazards

Marine pollutant -

Environmentally Hazardous substance

14.6 Special precautions for user

None known

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

Transport in bulk Not relevant

Section 15: Regulatory information

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

National regulation:

18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, with amendments. 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. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No.2677) with amendments. EH40/2005, Workplace exposure limits 2005, with amendments. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.



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Section 16: Other information

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions. The following sections contain revisions or new statements: 3, 6, 8.

16.1 Abbreviations and acronyms:

ADR European Agreement concerning the

International Carriage of Dangerous Goods

by Road

CAS Chemical Abstract Services

CLP Classification Labelling Packaging

Regulation, Regulation (EC) No 1272/2008

DNEL Derived No Effect Level

EC-No. European Community Number

EN European Standard

IATA International Air Transport Association

IMDG International Maritime Dangerous Goods

LC50 Median Lethal Concentration

LD50 Median Lethal Dose

PBT Persistent, Bio accumulative and Toxic

Substance

REACH Regulation (EC) No 1907/2006 of the

European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

SDS Safety Data Sheet

vPvB Very Persistent, and Very Bioaccumulative

16.2 Full text of H- and EUH-Statements

H225 Highly flammable liquid and vapour

H315 Causes skin irritation

H319 Causes serious eye irritation

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.