

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Review date: 05/12/2023 Supersedes version of: 10/08/2023 Version: 4.0

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

1.1. Product identifier

Product form : Mixture

Product name : GREEN'R AUTODISH H ULTRA

UFI : J5X2-603C-H002-P0VK

Product code : 1062
Type of product : Detergent
Product group : Mixture

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

1.2.1. Relevant identified uses

Main use category : Professional uses
Use of the substance/mixture : Alkaline cleaner

Machine dishwashing detergent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Christeyns España, SLU

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1.4. Emergency telephone number

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Country	Official advisory body	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)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1 H290
Skin corrosion/irritation, Category 1 H314
Serious eye damage/eye irritation, Category 1 H318

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage.

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

CLP Signal word : Danger

: Sodium hydroxide; 1-hydroxyethylidene-1,1-diphosphonic acid Contains

Hazard statements (CLP) : H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor.

P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER or doctor.

P390 - Absorb spillage to prevent material damage.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 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 is not 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

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium hydroxide substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, ES, FI, GB, GR, HR, HU, IE, LT, LV, PL, PT, RO, SE, SK, IS, NO, CH)	CAS-no: 1310-73-2 Einecs nr: 215-185-5 EG annex nr: 011-002-00-6 REACH-no: 01-2119457892- 27	≥ 10 - < 30	Met. Corr. 1, H290 Skin Corr. 1A, H314
1-hydroxyethylidene-1,1-diphosphonic acid	CAS-no: 2809-21-4 Einecs nr: 220-552-8 REACH-no: 01-2119510391- 53	≥1-<3	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 (ATE=1878 mg/kg bodyweight) Eye Dam. 1, H318

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Sodium hydroxide	CAS-no: 1310-73-2 Einecs nr: 215-185-5 EG annex nr: 011-002-00-6 REACH-no: 01-2119457892- 27	(0.5 ≤C < 2) Eye Irrit. 2, H319 (0.5 ≤C < 2) Skin Irrit. 2, H315 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C ≤ 100) Skin Corr. 1A, H314	

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures General advice

: In case of doubt or persistent symptoms, consult always a physician.

Inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable

for breathing.

: Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Skin contact Wash skin with plenty of water.

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Eye contact : IF IN EYES: 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.

Ingestion : Rinse mouth with water, do not induce vomiting, call a doctor.

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

Acute effects inhalation : No data available. Acute effects skin : Causes severe burns. Acute effects eyes : Causes serious eye damage.

Acute effects oral route : No data available.

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

Hazardous decomposition products in case of fire

: Combustion products may include the following: carbon oxides (CO, CO2) (carbon

monoxide, carbon dioxide) nitrogen oxides (NO, NO₂ etc.).

5.3. Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Prevent fire fighting water

from entering the environment.

Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8.

: Only qualified personnel equipped with suitable protective equipment may intervene. **Emergency procedures**

Ventilate spillage area. Avoid contact with skin and eyes. Evacuate area.

6.1.2. For emergency responders

: Use self-contained breathing apparatus and chemically protective clothing. Protective equipment

Emergency procedures : Stop leak if safe to do so. Prevent from entering sewers, basements and workpits, or any

place where its accumulation can be dangerous.

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 : Clear up rapidly by scoop or vacuum. Wash away remainder with plenty of water.

: Dispose of materials or solid residues at an authorized site. Other information

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

: Ensure good ventilation of the work station. Emergency eye wash fountains and safety Precautions for safe handling

showers should be available in the immediate vicinity of any potential exposure. Avoid

contact with skin and eyes. Wear personal protective equipment.

: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink Hygiene measures

or smoke when using this product. Always wash hands after handling the product. Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Store in original container. Store in corrosive resistant container with a resistant inner liner.

Store at ambient temperature. Protect from sunlight.

Incompatible materials : Metals. Storage temperature : 5 - 40 °C

Material(s) to avoid : Acids. strong oxidasing agents. Storage area : Store in a well-ventilated place.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

5····		
Sodium hydroxide (1310-73-2)		
Ireland - Occupational Exposure Limits		
Local name	Sodium hydroxide	
OEL STEL	2 mg/m³	
Regulatory reference Chemical Agents Code of Practice 2021		
United Kingdom - Occupational Exposure Limits		
Local name Sodium hydroxide		
WEL STEL (OEL STEL) 2 mg/m³		
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

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. ISO 16321-1

8.2.2.2. Skin protection

Protective equipment:

Wear suitable protective clothing minimum (EN 13034) Type 6 equipment

Hand protection:

Chemical resistant PVC gloves (to European standard EN 374 or equivalent). Time of penetration is to be checked with the glove producer. Nitrile rubber gloves

8.2.2.3. Respiratory protection

Respiratory protection:

No personal breathing protective equipment is normally required. In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with combined vapor/particle filter (EN 141). Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust

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 : Colourless. Light yellow.

Physical state/form : Liquid.

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Odour : Slight. Odour threshold : Not available

Melting point/range : Not determined as it is not relevant for the characterization of the product Freezing point : Not determined as it is not relevant for the characterization of the product Softening point : Not determined as it is not relevant for the characterization of the product Boiling point/Boiling range : Not determined as it is not relevant for the characterization of the product

Flammability : Not applicable (aqueous liquid)

Explosive properties : Constituents do not contain chemical groups associated with explosivity.

Oxidising properties : Non oxidizing. **Explosive limits** : Not available

Lower explosion limit : Not determined as it is not relevant for the characterization of the product Upper explosion limit : Not determined as it is not relevant for the characterization of the product Flash point : Not determined as it is not relevant for the characterization of the product Autoignition temperature : Not determined as it is not relevant for the characterization of the product Decomposition temperature : Not determined as it is not relevant for the characterization of the product

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Viscosity, kinematic : Not available Solubility : Water: 100 % Partition coefficient n-octanol/water (Log Kow) : Not available

: Not applicable for preparations Log Pow

Vapour pressure : Without VOC (volatile organic compounds)

Vapour pressure at 50°C : Not available Density : 1.215 g/cm³ Relative density : 1.2 - 1.23

Relative vapour density at 20°C : Without VOC (volatile organic compounds)

Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (ether=1) : >

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

metals.

10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Nitrogen oxides.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation)

1-hydroxyethylidene-1,1-diphosphonic acid (2809-21-4)		
LD50 oral rat	1878 mg/kg	
ATE CLP (oral)	1878 mg/kg bodyweight	
Skin correcion/irritation : Causes severe skin burns		

Skin corrosion/irritation

pH: 14

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Serious eye damage/irritation : Causes serious eye damage.

pH: 14

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008. Before

neutralisation, the product may represent a danger to aquatic organisms.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

Sodium hydroxide (1310-73-2)		
LC50 - Fish [1] > 35 mg/l		
EC50 - Crustacea [1]	40.4 mg/l (Ceriodaphnia)	
EC50 - Other aquatic organisms [1] > 33 mg/l waterflea		

12.2. Persistence and degradability

GREEN'R AUTODISH H ULTRA		
Persistence and degradability Readily biodegradable, according to appropriate OECD test.		
Sodium hydroxide (1310-73-2)		

12.3. Bioaccumulative potential

GREEN'R AUTODISH H ULTRA		
Log Pow Not applicable for preparations		
Sodium hydroxide (1310-73-2)		
Log Pow -3.88		
Bioaccumulative potential No bioaccumulation.		

1-hydroxyethylidene-1,1-diphosphonic acid (2809-21-4)

Log Pow	-3.5
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of this material and its container at hazardous or special waste collection point.

Product/Packaging disposal recommendations

: a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste. Refer to

manufacturer/supplier for information on recovery/recycling.

Waste / unused products

: Do not discharge into drains or the environment. Collect all waste in suitable and labelled containers and dispose according to local legislation.

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European List of Waste (LoW, EC 2000/532) : 20 01 29* - detergents containing dangerous substances

HP Code : HP8 - "Corrosive:" waste which on application can cause skin corrosion.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA	
14.1. UN number or ID number			
UN 1824	UN 1824	UN 1824	
14.2. UN proper shipping name			
SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	Sodium hydroxide solution	
Transport document description			
UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II, (E)	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II	UN 1824 Sodium hydroxide solution, 8, II	
14.3. Transport hazard class(es)			
8	8	8	
***************************************	8	8	
14.4. Packing group			
II	II	II	
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	
No supplementary information available			

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C5 Limited quantities (ADR) : 11

Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container instructions : T7

(ADR)

Portable tank and bulk container special provisions

(ADR)

Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 80

Orange plates :

80 1824

: TP2

Tunnel code : E
EAC code : 2R

Transport by sea

Limited quantities (IMDG) : 1 L
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02

Air transport

PCA Limited quantities (IATA) : Y840

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PCA limited quantity max net quantity (IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provisions (IATA) : A3, A803

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

15.1.1. EU-Regulations

Other information, restriction and prohibition : Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions). 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)

Detergent Regulation (648/2004)

Labelling of contents		
Component	%	
polycarboxylates, phosphonates	<5%	

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)

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)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
1.3		Modified	
		Modified	

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	

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Abbreviations and acronyms:			
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 disrupting properties		

Other information

: It is recommended to pass the information of this safety data sheet, eventually in an appropriated form, to the users. Such information is actually to be best of our knowledge and believes accurate as reliable. This information relates to the specific material designated and may not be valid in combination with other product(s). EC Regulation 1272/2008 and its amendments.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H290	May be corrosive to metals.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	

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Full text of H- and EUH-statements:		
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:					
Met. Corr. 1	H290	On basis of test data			
Skin Corr. 1	H314	On basis of test data			
Eye Dam. 1	H318	On basis of test data			

Safety Data Sheet (SDS), EU

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.