



Issue date: 27/06/2023
Revision: 02
Version: 03
Replaces: SDS dated 01.11.2022

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

1.1 Product identifier:

Trade name: STORM ARTIFICIAL GRASS CLEANER & DEODORISER
CONCENTRATE
Product code: STORMGRASS2LTR
Synonyms: STORMGRASS2LTR / LODI

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses of the substance or mixture:
Water based disinfectant and cleaner.

Uses advised against:

Do not use for purposes other than those stated in "Recommended uses"

1.3 Details of the supplier of the safety data sheet

Lodi UK Ltd Bays 3 & 4, Building 69 Third Avenue Pensnett Trading Estate Kingswinford DY6 7FD
Tel: +44 01384 404242 (office hours only)
Emergency tel: +44 01384 404242 (office hours only)

1.4 Emergency telephone number

Emergency information services / official advisory body:

Country	Organisation/ Company	Address	Emergency number
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle- upon-Tyne NE1 4LP Newcastle	0344 892 0111
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Eye Damage Category 1 H318
Skin Irritation Category 2 H315
Skin Sensitizer Category 1 H317
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

Hazard pictograms:

GHS05



GHS07

Signal word:

Danger

Hazard statements:

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:

P102: Keep out of reach of children.
P261: Avoid breathing mist/vapours/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P310: Immediately call a POISON CENTER/doctor.
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous ingredients (label):

CONTAINS:
TETRA-SODIUM ETHYLENEDIAMINE TETRA-ACETATE,
DIMETHYL C12-C14 ALKYL BETAINES, LIGUSTRAL, LINALOOL

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

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

SECTION 3: Composition/information on ingredients**3.1 Substance**

n.a.

3.2 Mixture

Components:

Substance:	EC/CAS numbers:	EU Index No./REACH Registration Number:	CLP Classification:	Percent:
Alkyl dimethyl benzyl ammonium chloride;	270-325-2/ 68424-85-1	-/01-2119970550-39	Acute Tox. 4 (Oral); H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Specific Concentration Limits, M-factors and ATEs if available:	1 - 10

			[None]	
Tetra-sodium ethylenediamine tetra-acetate	200-573-9/ 64-02-8	607-428-00-2/ 01-2119486762-27	Met. Corr. 1; H290 Acute Tox. 4 (Oral); H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Acute Tox. 4 (inhal); H332 STOT RE 2; H373 Specific Concentration Limits, M-factors and ATEs if available: [None]	1 - 10
Dimethyl C12-C14 alkyl betaines	-/66455-29-6	-/01-2119529251-48	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic; H412 Specific Concentration Limits, M-factors and ATEs if available: [None]	1 - 10
Perfume: Cut Grass (CONTAINING: ligustral, linalool)	-/-	-/-	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319; Aquatic Chronic 2; H411 Specific Concentration Limits, M-factors and ATEs if available: [None]	< 1

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Eye bathing equipment should be available on the premises.

SECTION 5: Firefighting measures



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5.1 Extinguishing media

Suitable extinguishing media Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Unsuitable extinguishing media None known

5.2 Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes. Water based product. Advice relates to dry residues after water has evaporated.

5.3 Advice for firefighters

Precautionary measures fire: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.

Firefighting instructions: Appropriate self-contained breathing apparatus may be required. Get the package away from the fire if this can be done without risk. Prevent fire fighting water from entering the environment.

Protection during firefighting: Wear fire/flammable resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

Other information: Do not allow material to contaminate surface water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand.

6.3 Methods and material for containment and cleaning up

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

6.4 Reference to other sections

Refer to section 8 of SDS.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

Water based disinfectant and cleaner.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters



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None set for components.

DNEL:

No data available.

PNEC:

No data available.

8.2 Exposure controls

Engineering measures:

Ensure there is sufficient ventilation of the area.

Respiratory protection:

Self-contained breathing apparatus must be available in case of emergency.

Hand protection:

Protective gloves.

Eye protection:

Ensure eye bath is to hand. Safety glasses.

Skin protection:

Protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colourless
Odour:	Perfumed
Odour threshold:	No data available
pH:	7 - 8
Evaporation rate:	No data available
Melting point:	0°C
Freezing point:	No data available
Boiling point/range:	100°C
Flash point:	Not applicable
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Not flammable, Not self-igniting
Vapour pressure:	Not applicable.
Relative vapour density at 20 °C:	No data available
Relative density:	No data available
Solubility:	No data available
Partition coefficient n-octanol/water (Log Pow):	Not applicable
Viscosity, kinematic:	Non-viscous
Viscosity, dynamic:	Non-viscous
Explosive properties:	Not explosive.
Oxidising properties:	Non oxidizing.
Explosive limits:	No data available

9.2 Other information

Other information: No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions.



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10.2 Chemical stability

The product is stable at normal handling and storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

(a) acute toxicity:

Product: Not classified.

Ingredients where available:

ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE

DERMAL RAT LD50 1560 mg/kg

ORAL RAT LD50 795 mg/Kg

TETRA-SODIUM ETHYLENEDIAMINE TETRA-ACETATE

DERMAL GPG LD50 5000 mg/kg

ORAL RAT LD50 3030 mg/kg

DIMETHYL C12-C14 ALKYL BETAINES

ORAL RAT LD50 >2000 mg/kg

(b) skin corrosion/irritation:

Not classified.

(c) serious eye damage/irritation:

Classified as Eye Damage Category 2

(d) respiratory or skin sensitisation:

Not classified.

(e) germ cell mutagenicity:

Not classified.

(f) carcinogenicity:

Not classified.

(g) reproductive toxicity:

Not classified.

(h) STOT-single exposure:

Not classified.

(i) STOT-repeated exposure:

Not classified.

(j) aspiration hazard:



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Not classified.

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

11.2 Information on other hazards:

Endocrine disrupting properties: None

Other information: None

SECTION 12: Ecological information

12.1. Toxicity

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

Ingredients where available:

ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE

DAPHNIA 48H EC50 0.03 mg/l

RAINBOW TROUT 96H LC50 1.7 mg/l

(Oncorhynchus mykiss)

TETRA-SODIUM ETHYLENEDIAMINE TETRA-ACETATE

FISH 96H LC50 >100 mg/l

12.2. Persistence and degradability

Biodegradable. The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

No bioaccumulation potential.

12.4. Mobility in soil

Readily absorbed into soil. Volatile. Soluble in water.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None

PBT Substances: None

12.6. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal operations: The product will not be dangerous to the environment when diluted in waste water systems and may be disposed of as low-hazard chemical waste within the scope of national and local regulations/permits.

Recovery operations: Not applicable.



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Waste code number: 20 01 30

Disposal of packaging: Dispose of as normal industrial waste. Clean with water.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not available

14.3. Transport hazard class(es)

Not available

14.4. Packing group

Not available

14.5. Environmental hazards

Not available

14.6. Special precautions for user

Not available

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

Not available.

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.

REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 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, including amendments.

COMMISSION REGULATION (EU) 2015/830 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Other information:

According to Detergent Regulations EC 648/2004, the product contains amongst other ingredients:

Amphoteric surfactants <5%

Cationic surfactants <5%

EDTA salts <5%

Perfumes

National Regulations/legislation:

Refer to applicable national classification, packaging and labelling legislation.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for the mixture.

SECTION 16: Other information

(a) Reasons for revision:

Update to latest version of REACh;

(b) Abbreviations and acronyms:

Acute Tox. 4 (Oral):	Acute Toxicity Category 4 (Oral)
Acute Tox. 4 (Inhal.):	Acute Toxicity Category 4 (Inhalation)
Aquatic Acute 1:	Aquatic Acute Toxicity Category 1
Aquatic Chronic 1/2:	Aquatic Chronic Toxicity Category 1/2
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labelling, Packaging.
CSR:	Chemical safety report
DNEL:	Derived No Effect Level.
EC50:	Effective Concentration 50%
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
Eye Dam. 1:	Eye Damage Category 1
Eye Irrit. 2:	Eye Irritation Category 2
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
Met. Corr. 1	Metal Corrosion Category 1
N.A.:	Not available
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
Skin Corr. 1	Skin Corrosion Category 1
Skin Irrit. 2	Skin Irritation Category 2
Skin Sens. 1	Skin Sensitiser Category 1
STEL:	Short Term Exposure limit.
STOT RE2:	Specific Target Organ Toxicity Repeat Exposure Category 2
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
UN:	United Nations
vPvB	very persistent and very bioaccumulative
WGK:	German Water Hazard Class.

(c) Key literature references and sources for data:

Safety Data Sheets for ingredients.
ECHA Database
ECHA Guidance on the compilation of safety data sheets
ECHA guidance on the Application of the CLP Criteria

(d) Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):



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Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Skin Irritation Category 2	Calculation method
Eye Damage Category 1	Calculation method
Skin Sensitiser Category 1	Calculation method
Aquatic Chronic 3, H412	Calculation method

(e) Relevant H-statements and precautionary statements not written out in full under Sections 2 to 15:

H290 May be corrosive to metals.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H373 May cause damage to organs (lungs) through prolonged or repeated exposure (if mist inhaled).
 H400 Very toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

(f) Training advice:

Employee instruction/training in handling hazardous materials is required.

(g) Further information:

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.
 General occupational hygiene training recommended.

Legal disclaimer: 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