

Issue date: 22/06/2023

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Version: 03

Replaces: SDS dated 04.12.2019 / 0002

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier:**

Trade name: STORM BLACK SPECK & SPOT CLEANER
RTU Product code: STORMBLACKRTU5LTR
Synonyms: STORMBLACKRTU5LTR / 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 hard surface 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)

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)**

Skin Corr. 1B: H314

Aquatic Acute 1: H400

EUH031

2.2 Label elements**Labeling according to Regulation (EC) 1272/2008 (CLP)**

Hazard pictograms:

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	GHS05	GHS09
Signal word:	Danger	
Hazard statements:	H314: Causes severe skin burns and eye damage. H400: Very toxic to aquatic life. EUH031: Contact with acids liberates toxic gas.	
Precautionary statements:	P102: Keep out of reach of children. P260: Do not breathe spray. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . 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. P405: Store locked up.	
Hazardous ingredient: (Label)	Contains: Sodium hypochlorite	

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

Hazardous components within the meaning of the CLP regulation and related classification:

Substance:	EC/CAS numbers:	EU Index No./REACH Registration Number:	CLP Classification:	Percent:
Sodium hypochlorite	231-668-3/ 7681-52-9	017-011-00-1/ 01-2119488154-34	Skin Corr. 1B: H314 Eye Dam. 1: H318 Aquatic Acute 1: H400 Aquatic Chronic 1: H410 Specific Concentration Limits, M-factors and ATEs if available:	1 – 10

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			EUH031: C ≥ 5 % M=10 M(Chronic)=1	
Primary alcohol ethoxylate C9 -11 6 mole	-/ 68439-46-3	-/ 01-2119980051-45	Acute Tox. 4: H302 Eye Dam. 1: H318	< 1
Sodium carbonate	207-838-8/ 497-19-8	011-005-00-2/ 01-2119485498-19	Eye Irrit. 2; H319	< 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: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

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. Give 1 cup of water to drink every 10 minutes. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

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

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 jet spray/foam/CO₂/dry extinguisher

Unsuitable extinguishing media None known

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. 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 discharge into drains or rivers. Contain the spillage using bunding.

6.3 Methods and material for containment and cleaning up

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. 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

For personal protective equipment see Section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.
Suitable packaging: Must only be kept in original packaging.

7.3 Specific end use(s)

Water based hard surface cleaner.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None set for components.

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: Impermeable gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Environmental: Prevent from entering in public sewers or the immediate environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | | |
|----|-------------------------------|----------------------|
| a) | Physical state: | Liquid |
| b) | Colour: | Pale yellow |
| c) | Odour: | Characteristic odour |
| d) | Melting point/freezing point: | 0oC |

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e)	Initial boiling point and boiling range:	100oC
f)	Flammability (gas, liquid, solid):	Not applicable
g)	Upper/lower explosion limits:	Not explosive
h)	Flash point:	Not applicable
i)	Auto-ignition temperature:	No data available
j)	Decomposition temperature:	No data available
k)	pH:	11.5 - 12.5
l)	Dynamic viscosity	No data available
m)	Solubility(ies)	No data available
n)	Partition coefficient: n-octanol/water:	No data available
o)	Vapour pressure:	No data available
p)	Relative density:	1.180
q)	Relative vapour density	No data available
r)	Particle characteristics	No data available

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under normal 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

Strong oxidising agents. Strong acids. Strong reducing agents.

10.6 Hazardous decomposition products

In combustion emits toxic fumes. Contact with acids liberates very toxic gas.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients:

SODIUM HYPOCHLORITE SOLUTION...100% CL ACTIVE

ORL	MUS	LD50	5800	mg/kg
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PRIMARY ALCOHOL ETHOXYLATE C9-11 6 MOLE

IHL	RAT	LC50	>5	mg/l
ORL	RAT	LD50	200-2000	mg/kg
SKN	RAT	LD50	>2000	mg/kg

SODIUM CARBONATE

ORL	MUS	LD50	6600	mg/kg
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ORL	RAT	LD50	4090	mg/kg
SCU	MUS	LD50	2210	mg/kg

**Non-classified ingredients:
SODIUM BICARBONATE**

ORL	RBT	LD50	4220	mg/Kg
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Relevant hazards for product:

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

Symptoms/routes of exposure**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.**Eye contact:** Corneal burns may occur. May cause permanent damage.**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

Decomposition may occur on exposure to conditions or materials listed below.

11.2 Information on other hazards:

Endocrine disrupting properties: None

Other information: None

SECTION 12: Ecological information**12.1. Toxicity****Hazardous ingredients:****PRIMARY ALCOHOL ETHOXYLATE C9-11 6 MOLE**

FISH	96H LC50	1-10	mg/l
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SODIUM BICARBONATE

FATHEAD MINNOWS	96H LC50	8600	g/l
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12.2. Persistence and degradability

Not 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

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Very toxic to aquatic organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations: Not applicable.

Waste code number: 20 01 29

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

UN1760

14.2. UN proper shipping name

CORROSIVE LIQUID, N.O.S.
(SODIUM HYPOCHLORITE SOLUTION...5-10% CLACTIVE)

14.3. Transport hazard class(es)

8

14.4. Packing group

III

14.5. Environmental hazards

Yes.

14.6. Special precautions for user

Special precautions: No special precautions.
Tunnel code: E
Transport category: 3

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.

Regulation (EC) 2015/830 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 :

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Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

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:	Acute Toxicity Category 4
Aquatic Acute 1:	Acute Aquatic Toxicity Category 1
Aquatic Chronic 1:	Chronic Aquatic Toxicity Category 1
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.
EUH031:	Contact with acids liberates toxic gas.
Eye Dam. 1:	Eye Damage Category 1
Eye Irrit. 2:	Eye Irritation Category 2
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labelling 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.
N.A.:	Not available
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
Skin Corr. 1B:	Skin Corrosion Category 1B
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
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 Corrosion Category 1B	Classification according to expert judgement.
Aquatic Acute Toxicity Category 1	Classification according to expert judgement.

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

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H410 Very toxic 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 (EC) No 2015/830. All substances in this preparation are registered within UK/EU/EFTA countries under the REACH (UK/EC) (amended) regulations, EC 1907/2006
Product requires CRC (child resistant closure) and TDW (tactile danger warning) for retail sale to the general public.
Detergent Regulations EC648/2004, the product contains amongst other ingredients:- Chlorine based bleaching agents 5-15%.

IMPORTANT NOTE:

Risk phrases in this section below relate to the INDIVIDUAL COMPONENTS in the formulation when used at their FULL CONCENTRATIONS, and not at the reduced levels in the mixed product.
See sections 2 and 3 for the calculated hazard and risk phrases for the blended product.

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