

Safety data sheet
according to 1907/2006/EC (REACH)

Printing date 25.05.2016

Rev. 1

Revision: 24.05.2016

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

- **1.1 Product identifier**
 - Trade name: **LITOSTAIN CLEANER**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Cleaner/stain remover for colored spots

 - Application of the substance / the mixture *Cleaning agent/ Cleaner*
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**

LITOKOL S.p.A.
Via G.Falcone, 13/1
42048 Rubiera (RE) - ITALY
Tel. +39 0522 626391 - Fax. +39 0522 620150
 - Further information obtainable from: LITOKOL S.p.A. - Email: laboratorio@litokol.it
- **1.4 Emergency telephone number:**


UNITED KINGDOM
National Poisons Information Service (NPIS) - Tel: +44 844 8920111

LITOKOL S.p.A.
Technical support: Tel. +39 0522 622852 (Monday - Friday: 8.30 -12.30 AM , 2.00 - 6.00 PM)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**

Met. Corr. 1 H290 May be corrosive to metals.
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.
 - **Hazard pictograms**


GHS05
 - **Signal word** *Danger*
 - **Hazard-determining components of labelling:**

sodium hypochlorite, solution
 - **Hazard statements**

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.
 - **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P406 Store in corrosive resistant container with a resistant inner liner.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
 - **Additional information:**

EUH031 Contact with acids liberates toxic gas.
- **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

· **Description:** Mixture: consisting of the following components.

· Dangerous components:

CAS: 7681-52-9	sodium hypochlorite, solution	2.5-10%
EINECS: 231-668-3	Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411	
Index number: 017-011-00-1		

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

· **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

· **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.
Wear fully protective suit.
Mouth respiratory protective device.

· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Clean the affected area carefully; suitable cleaners are:
Warm water
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Keep receptacles tightly sealed.

Handle with care. Avoid jolting, friction and impact.

Use only in well ventilated areas.

· **Information about fire - and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Do not store together with acids.

· **Further information about storage conditions:** Keep container tightly sealed.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 7681-52-9 sodium hypochlorite, solution

WEEL (USA) Short-term value: 2 mg/m³

· DNELs

CAS: 7681-52-9 sodium hypochlorite, solution

Oral	DNEL / Long term exposure - Local effects	0.26 mg/Kg (general population)
Inhalative	DNEL / Long term exposure - Local effects	1.55 mg/m ³ (general population)
		1.55 mg/m ³ (workers)
	DNEL / Short term exposure - Local effects	3.1 mg/m ³ (general population)
		3.1 mg/m ³ (workers)

· **Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

Ensure that washing facilities are available at the work place.

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

Short term filter device:

Filter E1

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Nitrile rubber, NBR

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least 360 minutes (Permeation according to EN 374 Part 3: Level 5).

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Face protection



Tightly sealed goggles

· **Body protection:**

Boots

Apron

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- **Form:** Gel
- **Colour:** Colourless
- **Odour:** Characteristic
- **Odour threshold:** Not determined.

· **pH-value:** 12.5

· **Change in condition**

- **Melting point/Melting range:** - 20/ - 30 °C
- **Boiling point/Boiling range:** >96 °C

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:**

- **Decomposition temperature:** > 35 °C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

- **Lower:** Not determined.
- **Upper:** Not determined.

· **Vapour pressure at 20 °C:** 23.39 hPa

- **Density at 20 °C:** 1.12 g/cm³
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with**

- **water:** Fully miscible.

· **Partition coefficient (n-octanol/water):** -3.42

· **Viscosity:**

- **Dynamic:** Not determined.
- **Kinematic:** Not determined.

· **Solvent content:**

- **Organic solvents:** 0.0 %

· **9.2 Other information** No further relevant information available.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No further relevant information available.*
- **10.2 Chemical stability**
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions**
 - Reacts with acids.*
 - Corrosive action on metals.*
 - Reacts with reducing agents.*
 - Toxic fumes may be released if heated above the decomposition point.*
 - Contact with acids releases toxic gases.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *Poisonous gases/vapours*

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity** *Based on available data, the classification criteria are not met.*

· **LD/LC50 values relevant for classification:**

CAS: 7681-52-9 sodium hypochlorite, solution

Oral	LD50	>2000 mg/kg (mouse)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50 / 1h	>10.5 mg/m ³ (rat)

- **Primary irritant effect:**
 - **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
 - **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** *Based on available data, the classification criteria are not met.*
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **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.*
 - **STOT-repeated exposure** *Based on available data, the classification criteria are not met.*
 - **Aspiration hazard** *Based on available data, the classification criteria are not met.*

SECTION 12: Ecological information

- **12.1 Toxicity**

· **Aquatic toxicity:**

CAS: 7681-52-9 sodium hypochlorite, solution

LC50 / 96h	0.032 mg/l (fish)
NOEC	0.005 mg/l (fish)

- **12.2 Persistence and degradability** *No further relevant information available.*
- **12.3 Bioaccumulative potential** *No further relevant information available.*
- **12.4 Mobility in soil** *No further relevant information available.*
- **Ecotoxicological effects:**
 - **Remark:** *Harmful to fish*
- **Additional ecological information:**
 - **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms

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- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** *Not applicable.*
 - **vPvB:** *Not applicable.*
- **12.6 Other adverse effects** *No further relevant information available.*

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
 - **Recommendation:** *Packagings that may not be cleansed are to be disposed of in the same manner as the product.*
 - **Recommended cleansing agents:** *Water, if necessary together with cleansing agents.*

SECTION 14: Transport information

- **14.1 UN-Number**
· **ADR, IMDG, IATA** UN3266
- **14.2 UN proper shipping name**
· **ADR** 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
· **IMDG, IATA** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
- **14.3 Transport hazard class(es)**
· **ADR**

· **Class** 8 Corrosive substances.
· **Label** 8
- **IMDG, IATA**
· **Class** Void
- **14.4 Packing group**
· **ADR** II
· **IMDG, IATA** Void
- **14.5 Environmental hazards:**
· **Marine pollutant:** No
- **14.6 Special precautions for user** Warning: Corrosive substances.
· **Danger code (Kemler):** 80
· **EMS Number:** F-A,S-B
· **Segregation groups** Alkalis
· **Stowage Category** B
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **Transport/Additional information:**
 - **ADR**
 - **Limited quantities (LQ)** 1L
 - **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
 - **Transport category** 2
 - **Tunnel restriction code** E
- **UN "Model Regulation":** UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., 8, II

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals)
Regulation (EC) No 1272/2008 (CLP - Classification, Labelling and Packaging of substances and mixtures)
Compilation of Safety Data Sheet: Reg.UE n. 830/2015 (amending Reg.EC n.1907/2006, Annex II)
- **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*
 - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
 - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
 - **REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 3*
- **National regulations:**
 - **Other regulations, limitations and prohibitive regulations**
The data and the informations reported in the present Material Safety Data Sheet are consistent to the Regulation 1907/2006/EC (REACH), 1272/2008/EC (CLP) and to what prescribed by the in force regulation in matter of classification, packaging and labelling of dangerous substances and preparations. Anyway, it's recommended to the user the need to verify and to comply with the specific national and local laws in matter of hazardous activities and of environmental protection (e.g.: gassy, liquid and solid emissions), that aren't in the object of this document.
Compilation of Safety Data Sheet: Reg.UE n. 830/2015 (amending Reg.EC n.1907/2006, Annex II)
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
 - H290 May be corrosive to metals.*
 - H314 Causes severe skin burns and eye damage.*
 - H318 Causes serious eye damage.*
 - H400 Very toxic to aquatic life.*
 - H411 Toxic to aquatic life with long lasting effects.*
- **Contact:** LITOKOL S.p.A.
- **Abbreviations and acronyms:**
 - REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals*
 - CLP: Classification, Labelling and Packaging*
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*
 - IMDG: International Maritime Code for Dangerous Goods*
 - IATA: International Air Transport Association*
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals*
 - EINECS: European Inventory of Existing Commercial Chemical Substances*
 - ELINCS: European List of Notified Chemical Substances*
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)*
 - DNEL: Derived No-Effect Level (REACH)*
 - LC50: Lethal concentration, 50 percent*
 - LD50: Lethal dose, 50 percent*
 - PBT: Persistent, Bioaccumulative and Toxic*
 - SVHC: Substances of Very High Concern*
 - vPvB: very Persistent and very Bioaccumulative*
 - SVHC: Substance of Very High Concern*
 - PNEC: Predicted No-Effect Concentration (REACH)*
 - Met. Corr. 1: Corrosive to metals – Category 1*
 - Skin Corr. 1B: Skin corrosion/irritation – Category 1B*
 - Eye Dam. 1: Serious eye damage/eye irritation – Category 1*
 - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*
 - Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*
 - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*
- *** Data compared to the previous version altered.**

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