

## Section 1 - Identification

**Trade Name:** deepCLEAN

**Catalog/Product Number:** 112-12-020, 112-12-024, 112-12-022

**Manufacturer/Supplier:**

ALCOR Scientific LLC  
20 Thurber Boulevard  
Smithfield, RI 02917, USA  
Telephone: (401) 737-3774

**Information Department:** Technical Support, Customer Service

**Emergency Information:** Telephone: (401) 737-3774

Monday – Friday, 8:30am – 5:00pm Eastern US Time Zone (GMT -5)

**Recommended Use:** Clinical laboratory, *in vitro* diagnostics reagent or component

## Section 2 – Hazard(s) Identification

**2.1 Classification of the substance or mixture is in accordance with:**

The **Globally Harmonized System of Classification and Labelling of Chemicals (GHS)**;

The **European CLP Regulation (EC) No 1272/2008**, as amended (e.g., ATP 17); and

The **U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200)**

**Information concerning particular hazards for human and environment:**

The product must be labeled due to the calculation procedure of international guidelines.

**Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

**Additional information:**

Contact with acids liberates toxic gas.

There are no other hazards not otherwise classified that have been identified.

0 percent of the mixture consists of ingredient(s) of unknown toxicity.

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## Section 2 – Hazard(s) Identification

### Section 2 (cont'd)

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#### Section 2.2 Labeling

Labelling according to the CLP Regulation (EC) No 1272/2008 in the EU and the Hazard Communication Standard 29 CFR 1910.1200 in the United States, both of which implement GHS-aligned labeling systems.

#### Hazard pictograms



GHS05

Signal word Danger



GHS09

Signal word: Danger

**Hazard-determining components of labeling:** sodium hypochlorite

#### Hazard statements

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life

#### Precautionary statements

P260 Do not breathe mist/vapors/spray.

P280 Wear protective gloves and eye protection.

P264 Wash thoroughly after handling.

P303+P361+P353 IF ON SKIN (or hair): Remove/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.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Additional information:

EUH031 Contact with acids liberates toxic gas.

#### Hazard description:

##### WHMIS-symbols:

D2B - Toxic material causing other toxic effects

E - Corrosive material

#### Classification system:

**HMIS Long Term Health Hazard Substances:** None of the ingredients are listed.

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## Section 2 – Hazard(s) Identification

**Section 2 (cont'd)** *FROM PAGE 2*

**Section 2.3 Other hazards**

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

## Section 3 – Composition/ Information on Ingredients

**Chemical Characterization:** Mixtures

**Description:** Mixture of substances listed below with non-hazardous additions.

**Dangerous Components:**

CAS: 7681-52-9	sodium hypochlorite	2.5 – 10%
EINECS: 231-668-3		
Index number: 017-011-00-1	M-factor (acute aquatic toxicity): 10	

**Additional information:** For the listed ingredients, the identity and exact percentages are being withheld as a trade secret. For the wording of the listed risk phrases refer to section 16.

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## Section 4 – First Aid Measures

### 4.1 Description of first aid measures

#### General information:

Immediately remove any clothing soiled by the product.  
Take affected persons out into the fresh air.

#### After inhalation:

Supply fresh air; consult a doctor in case of complaints.  
Provide oxygen treatment if affected person has difficulty breathing.

#### After skin contact:

Immediately rinse with water.  
If skin irritation continues, consult a doctor.  
Seek immediate medical help for blistering or open wounds.

#### After eye contact:

Protect unharmed eye.  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. Then consult a doctor.

#### After swallowing:

Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; immediately call for medical help.

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

Coughing  
Breathing difficulty  
Cramp  
Caustic effect on skin and mucous membranes.  
Gastric or intestinal disorders when ingested.  
Nausea in case of ingestion.

#### Danger

Danger of gastric perforation.  
Danger of impaired breathing.  
Causes serious eye damage.

### 4.3 Indication of any immediate medical attention and special treatment needed

Medical supervision for at least 48 hours.  
If necessary, oxygen respiration treatment.  
Later observation for pneumonia and pulmonary edema.

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## Section 5 – Fire-Fighting Measures

### 5.1 Extinguishing media

Suitable extinguishing agents: Use firefighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: None.

### 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

### 5.3 Advice for firefighters

#### Protective equipment:

Wear self-contained respiratory protective device.

Wear a fully protective suit.

**Additional information:** Cool endangered receptacles with water spray.

## Section 6 – Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

### 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

### 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Trade name: deepCLEAN

## Section 7 – Handling and Storage

### 7.1 Precautions for safe handling

Prevent formation of aerosols.

Use only in well-ventilated areas.

Avoid splashes or spray in enclosed areas.

**Information about protection against explosions and fires:** 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.

Unsuitable material for receptacle: aluminum.

Unsuitable material for receptacle: steel.

Avoid storage near extreme heat, ignition sources or open flames.

#### Information about storage in one common storage facility:

Do not store together with acids.

Store away from foodstuffs.

Store away from oxidizing agents.

Store away from metals.

#### Further information about storage conditions:

Store in cool, dry conditions in well-sealed receptacles.

Keep the receptacle tightly sealed.

### 7.3 Specific end use(s)

No further relevant information is available.

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## Section 8 – Exposure Controls / Personal Protection

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

### 8.1 Control parameters

**Components with limit values that require monitoring at the workplace:**

7681-52-9 sodium hypochlorite

WEEL (USA) Short-term value: 2 mg/m<sup>3</sup>

**Additional information:** The lists that were valid during the creation were used as a basis.

### 8.2 Exposure controls

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Do not inhale gases / fumes / aerosols.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Breathing equipment:**

Use suitable respiratory protective device when high concentrations are present.

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

**Protection of hands:**

Protective gloves

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

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

**Material of gloves**

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 cannot be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

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

**For the permanent contact gloves made of the following materials are suitable:**

PVC gloves

Rubber gloves



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## Section 8 – Exposure Controls / Personal Protection

### 8.2 Exposure controls (cont'd)

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#### Eye protection:

Contact lenses should not be worn.

Safety glasses

**Body protection:** Alkaline resistant protective clothing

#### Limitation and supervision of exposure into the environment

No further relevant information available.



## Section 9 – Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

**Form** = Liquid

**Color** = Light Yellow

**Odor** = Pungent

**Odor Threshold** = Not determined

**pH value at 20°C** > 12

**Melting point/Melting Range:** Undetermined

**Boiling point/Boiling range:** Undetermined

**Flashpoint:** Not applicable, Not determined

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

**Auto igniting:** Product is not self-igniting

**Danger of Explosion:** None

**Explosion limits:** Not determined

**Vapor pressure:** Not determined

**Density at 20°C (68°F):** 1.07g/cm<sup>3</sup> (8.929 lbs/gal)

**Relative density:** Not determined.

**Vapor density:** Not determined.

**Evaporation rate:** Not determined.

**Solubility in / Miscibility with water:** Fully miscible

**Partition coefficient (in octanol/water):** Not determined

**Decomposition temperature:** Not determined

**Viscosity:** Not determined (dynamic or kinematic)

**9.2 Other Information:** No further relevant information available.

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## Section 10 – Stability and Reactivity

### 10.1 Reactivity:

No known reactivity hazards associated with this product.

### 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

Contact with acids releases toxic gases.

Reacts with many consumer products, releasing chlorine or chlorine oxide gas.

Toxic fumes may be released if heated above the decomposition point.

Reacts with strong oxidizing agents.

Corrosive action on metals.

### 10.4 Conditions to avoid

Excessive heat and contact with acids.

### 10.5 Incompatible materials:

Caution! Do not use in conjunction with other products. Dangerous gases (chlorine) may be given off.

### 10.6 Hazardous decomposition products:

Poisonous gases/vapors

Chlorine

Hydrogen chloride (HCl)

## Section 11 – Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity:

LD/LC50 values that are relevant for classification: None.

#### Primary irritant effect:

· **on the skin:** Caustic effect on skin and mucous membranes.

· **on the eye:** Strong caustic effect.

**Sensitization:** No sensitizing effects known.

**Subacute to chronic toxicity:** No further relevant information available.

#### Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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### Section 11 – Toxicological Information

#### 11.1 Information on toxicological effects (cont'd)

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**Carcinogenic categories**

**IARC (International Agency for Research on Cancer):** None of the ingredients are listed.

**NTP (National Toxicology Program):** None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration):** None of the ingredients are listed.

**Acute effects (acute toxicity, irritation, and corrosivity):** Causes severe skin burns and eye damage.

**Repeated Dose Toxicity:** No further relevant information available.

### Section 12 – Ecological Information (non-mandatory)

#### 12.1 Toxicity

**Aquatic toxicity:** The product contains materials that are harmful to the environment.

**12.2 Persistence and degradability:** No further relevant information is available.

**12.3 Bio accumulative potential:** No further relevant information is available.

**12.4 Mobility in soil:** No further relevant information is available.

#### Ecotoxicological effects and remarks:

After neutralization a reduction of the harming action may be recognized

Inhibition of the development of the biomass

Toxic for algae

#### Additional ecological information:

##### General notes:

Environmental exposure controls should be used to avoid discharges to the environment.

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow products to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or un-neutralized.

Danger to drinking water if even small quantities leak into the ground.

Rinse off bigger amounts into drains or the aquatic environment may lead to increased pH-values.

A high pH-value harms aquatic organism. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous

#### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects:** No further relevant information available.

Trade name: deepCLEAN

### Section 13 – Disposal Considerations (non-mandatory)

#### 13.1 Waste treatment methods

**Recommendation:**

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

### Section 14 – Transport Information (non-mandatory)

#### 14.1 UN number

**DOT, ADR, IMDG, IATA:** UN1791

#### 14.2 UN proper shipping name



Limited Quantity for packages less than 30 kg (66 lb) and inner packaging less than 5 L (1.3 gal).

**DOT:** Hypochlorite solutions

**ADR:** 1791 HYPOCHLORITE SOLUTION

**IMDG, IATA:** HYPOCHLORITE SOLUTION

#### 14.3 Transport hazard class(es)

**DOT**



**Class:** 8 Corrosive substances

**Label:** 8

Trade name: deepCLEAN

### Section 14 – Transport Information (non-mandatory)

#### Section 14.3 Transport hazard class(es) (cont'd)

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##### DOT



**Class:** 8 Corrosive substances

**Label:** 8

##### ADR



**Class:** 8 (C9) Corrosive substances

**Label:** 8

##### IMDG, IATA



**Class:** 8 Corrosive substances

**Label:** 8

#### 14.4 Packing group

· DOT, ADR, IMDG, IATA: III

#### 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** Hypochlorites

Trade name: deepCLEAN

### Section 14 – Transport Information (non-mandatory)

#### Section 14 (cont'd)

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#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

#### Transport/Additional information:

##### ADR

**Excepted quantities (EQ) Code:** E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

##### IMDG

**Limited quantities (LQ)** 5L

**Excepted quantities (EQ) Code:** E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

**UN "Model Regulation":** UN1791, Hypochlorite solutions, 8, III

### Section 15 – Regulatory Information (non-mandatory)

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

**CLP Regulation (EC) No 1272/2008, including amendments by ATP 17**

**Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 29 CFR 1910.1200, for chemical safety and labeling in the United States**

**SARA**

**Section 355 (extremely hazardous substances):** None of the ingredients is listed.

**Section 313 (Specific toxic chemical listings):** None of the ingredients are listed.

**TSCA (Toxic Substances Control Act):** All ingredients are listed.

**Proposition 65 (California)**

**Chemicals known to cause cancer:** None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:** None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:** None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:** None of the ingredients is listed.

**Carcinogenic categories**

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## Section 15 – Regulatory Information (non-mandatory)

### 15.1 Safety, health and environmental.... (cont'd)

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**EPA (Environmental Protection Agency):** None of the ingredients is listed.

**IARC (International Agency for Research on Cancer):** None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH):** None of the ingredients are listed.

**MAK (German Maximum Workplace Concentration):** None of the ingredients are listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health):** None of the ingredients are listed.

**State Right to Know Listings:** None of the ingredients are listed.

#### Canada

##### Canadian substance listings:

**Canadian Domestic Substances List (DSL):** All ingredients are listed.

**Canadian Ingredient Disclosure list (limit 0.1%):** None of the ingredients are listed.

• **Canadian Ingredient Disclosure list (limit 1%):** 7681-52-9 sodium hypochlorite

##### Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

The product is not subject to labeling requirements under the U.S. EPA TSCA inventory, beyond what is specified above.

### 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

Trade name: deepCLEAN

## Section 16 – Other Information

This information is based on the original manufacturer's present knowledge. This shall not constitute a guarantee for any specific product features and shall not establish a legally contractual relationship. This document replaces and supersedes any prior versions of the SDS for this product.

### Relevant phrases

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

M-factor (acute): 10 for sodium hypochlorite

### Abbreviations and acronyms:

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

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C

Aquatic Acute 1: Hazardous to the aquatic environment – Acute Hazard, Category 1

### Sources and Guidance:

OSHA Brief, Hazard Communication Standard (HCS) based on 29 CFR 1910.1200, 2012

Regulation (EC) 1907/2006 (REACH)

Regulation (EC) 1272/2008 (CLP)

United Nations Globally Harmonized System