## 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, invitro diagnostics reagent or component

## Section 2 – Hazard(s) Identification

### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No 1272/2008**

Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).



Corrosion

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



C; Corrosive

R34: Causes burns.
R31: Contact with acids liberates toxic gas.

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

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

**Trade name:** deepCLEAN

## Section 2 – Hazard(s) Identification

**Section 2.1 (cont'd)** *FROM PAGE 1*

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

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

**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.

### Section 2.2 Labeling

**Labelling according to Regulation (EC) No 1272/2008**
The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS). The product is classified and labeled according to the CLP regulation.

**Hazard pictograms**



GHS05

**Signal word** Danger

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

**Hazard statements**
H314 Causes severe skin burns and eye damage.

**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.

**Trade name:** deepCLEAN

## Section 2 – Hazard(s) Identification

**Section 2.2 (cont'd)** *FROM PAGE 2*

**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.

### 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<br>EINECS: 231-668-3<br>Index number: 017-011-00-1 | sodium hypochlorite<br> **C R34;**  **N R50; R31**<br><br> Skin Corr. 1B, H314<br>Aquatic Acute 1, H400 | 2.5 – 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.

**Trade name:** deepCLEAN

## 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.

**Trade name:** deepCLEAN

## 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.

**Trade name:** deepCLEAN

## 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/m³
**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

**Trade name:** deepCLEAN

## Section 8 – Exposure Controls / Personal Protection

**8.2 Exposure controls (cont'd)**

*FROM PAGE 7*

**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/cm³ (8.929 lbs/gal)
**Relative density:** Not determined.
**Vapor density:** Not determined.
**Evaporation rate:** Not determined.
**Relative density:** 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.

**Trade name:** deepCLEAN

## 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.

**Trade name:** deepCLEAN

## Section 11 – Toxicological Information

**11.1 Information on toxicological effects (cont'd)** *FROM PAGE 9*

**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:**

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)** *FROM PAGE 11*

**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)** *FROM PAGE 12*

**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**
**United States (USA)**
**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**
**EPA (Environmental Protection Agency):** None of the ingredients is listed.
**IARC (International Agency for Research on Cancer):** None of the ingredients is listed.

**Trade name:** deepCLEAN

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

**15.1 Safety, health and environmental…. (cont'd)** *FROM PAGE 13*

**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.

**15.2 Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

## 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.

**Relevant phrases**

H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
R31 Contact with acids liberates toxic gas.
R34 Causes burns.
R50 Very toxic to aquatic organisms.

**Trade name:** deepCLEAN

## Section 16 – Other Information

**Section 16 (cont'd)** *FROM PAGE 14*

**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

# 123-09-020 (DOC-6820) Ver. 0

**Approved By:**

**(CO-3752) ALCOR Safety Data Sheets**

**Description**

Create and approve the safety data sheet for the new deepCLEAN product utilizing the Regulation (EU) 2020-878 (REACH) requirements. Update the existing SDS's for Wash Solutions and SEDiTROL to ensure compliance to the REACH following the template from the standard. Obsolete the MSDS Exemption Letter (112-09-078) and create a Deviation to for the Wash Solution manufacturing, qc, and packaging.

**Justification**

Due to hazardous nature, a safety data sheet is required for the deepCLEAN (Bleach). In addition, the ALCOR SDS's needed to be revised to match the format of the REACH Regulation.

| Assigned To: | Initiated By: | Priority: | Impact: |
|---|---|---|---|
| Scott VanAlst | Scott VanAlst | Medium | Minor |

**Version History:**

| Author | Effective Date | CO# | Ver. | Status |
|---|---|---|---|---|
| Scott VanAlst | August 6, 2024 7:45 AM EDT | CO-3752 | 0 | Published |