

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

1.1. Product identifier

Product form	: Mixture
Product name	: Modaplex Decon
Product code	: 00-14303-2000
Other means of identification	: Sodium Hypochlorite, 6 - 7.4 %; Decontamination Solution

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture	: Decontamination Reagent for Electrophoresis
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1.3. Details of the supplier of the safety data sheet

ADS Biotec, Inc.
7409 Irvington Road
Omaha, NE 68122 – USA
support@adsbiotec.com

Manufactured for: Biotype Diagnostic GmbH
Moritzburger Weg 67
Dresden Germany D-01109
info@biotype.de

1.4. Emergency telephone number

Emergency Contact Number	: USA: 1-800-255-3924 (CHEMTEL 24hr); International: +1-813-248-0585 (CHEMTEL 24hr)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin corrosion (Category 1B), H314
Corrosive to metals (Category 1), H290
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For full text of the H-statements mentioned in this section, see section 16.

2.2. Label elements

GHS-US labeling



Pictogram

Signal Word Danger

Hazard Statement(s)

H290	May be corrosive to metals.
H314	Causes severe burns and eye damage
H318	Causes serious eye damage.
H371	May cause damage to organs.
H401	Toxic to aquatic life.
Precautionary Statements	
P234	Keep only in original container.
P260	Do not breathe dust, fumes or mist.
P264	Wash skin thoroughly after handling
P270	Do not eat, smoke or drink when using this product.
P273	Avoid release to the environment
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 (HAIR): remove/take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P340	IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and continue rinsing.
P310	Immediately call a poison center or doctor/physician.
P321	Specific treatment instructions (see supplemental first aid)
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.

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P501 Dispose of contents/container to an approved waste disposal plant.

2.3. Other hazards

Other hazards not contributing to the classification : Contact with acids liberates toxic gases.

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	92-95	Not classified
Sodium Hypochlorite	(CAS No) 7681-52-9	6-7.4	Skin Corrosive 1B; Eye Irritant 2A; Aquatic Acute 1; Aquatic Chronic 1; H314, H410

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove to fresh air, keep the patient warm and at rest. If symptoms develop obtain medical attention.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop obtain medical attention.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop obtain medical attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Give 100 - 200 ml of water or milk to drink. If symptoms develop call physician and obtain medical attention.

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

Symptoms/injuries : The most important known symptoms and effects are described in 2.2 or section 11.

Symptoms/injuries after ingestion : Ingestion may cause nausea, vomiting and diarrhea.

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

Immediately call a POISON CENTER or physician.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder.

Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Explosion hazard : On exposure to high temperature, may decompose, releasing explosive vapours.

Reactivity : Hydrogen chloride gas, sodium oxides..

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment.

Protection during firefighting : Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear protective gloves and eye protection.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

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6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and eye or face protection.
Emergency procedures : Avoid contact with eyes, skin and clothing. Ensure adequate ventilation.

6.2. Environmental precautions

Not normally required.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wash spill area with soapy water.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with skin, eyes and clothing.
Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.

7.3. Specific end use(s)

A electrophoresis reagent used for decontamination in a professional diagnostic or research laboratory.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation.
Hand protection : Wear chemically resistant protective gloves.
Eye protection : Safety glasses with face shield.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : Not required under normal use.
Thermal hazard protection : Not required for normal conditions of use.
Environmental exposure controls : Not normally required.
Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Clear to pale yellow/light green liquid.
Odour : Bleach-like odor.
Odour threshold : No data available
pH : Alkaline
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : Approximately 0 °C
Boiling point : No data available
Flash point : No data available
Self ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : 1.355
Relative density : 1.08
Solubility : Miscible with water.

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Log Pow	: 0
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions. May decompose upon exposure to light.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Will not occur.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes severe burns and eye damage. Do NOT breathe dust, fumes or mist. Wash arms, hands, face thoroughly after handling. Wear protective gloves and eye protection when using this product. Avoid release to the environment. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: remove person to fresh air and keep comfortable for breathing. IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Call a POISON CENTER or physician. Specific treatment (wash areas of contact with water). Wash contaminated clothing before reuse. Absorb spillage to prevent damage.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: May cause damage to organs. Do NOT breathe dust, fumes or mist. Wash arms, hands, face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed or concerned. Call a POISON CENTER or physician. Store locked up. Dispose of contents in accordance with local, state, federal, and international regulations.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met

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Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
Symptoms/injuries after ingestion : Ingestion may cause nausea, vomiting and diarrhea.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

12.2. Persistence and degradability

Modaplex Decon	
Persistence and degradability	No information available.

12.3. Bioaccumulative potential

Modaplex Decon	
Log Pow	0
Bioaccumulative potential	No information available.

12.4. Mobility in soil

Modaplex Decon	
Ecology - soil	No information available.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1 DOT (USA)

UN Number: UN1791
Proper Shipping Name: Hypochlorite Solutions
Hazard Class: 8
Packing Group: II

Hazard Placard Labels:



14.2 Transportation by Air (IATA)

UN Number: UN1791
Proper Shipping Name: Hypochlorite Solution
Hazard Class: 8
Packing Group: II

Hazard Placard Labels:



14.3 Additional information

Other information : No supplementary information available.

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Transport by sea

UN Number: UN1791
Proper Shipping Name: Hypochlorite Solution
Hazard Class: 8
Packing Group: II

Hazard Placard Labels:



EMS-No. F-A S-B
Marine Pollutant: No

SECTION 15: Regulatory information

15.1. US Federal regulations

OSHA - No additional information available
SARA - No additional information available
SARA Amendments – Sodium Hypochlorite (CAS # 7681-52-9): 100 lb final RQ; 45.4 kg final RQ
SARA/TSCA - No additional information available

15.2. International regulations

CANADA

Domestic Substances Act (DSL/NDSL)
Sodium Hypochlorite (CAS # 7681-52-9): Present
Water (CAS # 7732-18-5) – Present

EUROPE

European Inventory of Existing Commercial Chemical Substances (EINECS)
European List of Notified Chemical Substances (ELINCS) and No Longer Polymers (NLP)
No additional information available

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

16.1. Full Text of Hazard Statements and Precautionary Statements

May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage. May cause damage to organs. Toxic to aquatic life. Keep only in original container. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat drink or smoke when using this product. Avoid release to the environment. Wear protective gloves and eye protection.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water.
IF INHALED: remove person to fresh air and keep comfortable for breathing. IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Call a POISON CENTER or physician. Specific treatment (wash areas of contact with water). Wash contaminated clothing before reuse. Absorb spillage to prevent damage.
Store locked up. Store in corrosive resistant container with resistant inner liner. Dispose of contents in accordance of contents in accordance with local, state, federal and international regulations,

16.2. Miscellaneous Hazard Classes

May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage. May cause damage to organs. Toxic to aquatic life.
Keep only in original container. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat drink or smoke when using this product. Avoid release to the environment. Wear protective gloves and eye protection.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water.
IF INHALED: remove person to fresh air and keep comfortable for breathing. IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Call a POISON CENTER or physician. Specific treatment (wash areas of contact with water). Wash contaminated clothing before reuse. Absorb spillage to prevent damage.

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Store looked up. Store in corrosive resistant container with resistant inner liner.

Dispose of contents in accordance of contents in accordance with local, state, federal and international regulations,

- Data sources : 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.
- Abbreviations and acronyms : ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route). CAS (Chemical Abstracts Service) number. IARC (International Agency for Research on Cancer). IATA (International Air Transport Association). IMDG (International Maritime Dangerous Goods Code). RID (Règlement concernant le transport international ferroviaire de marchandises).
- Other information : None.

NCEC SDS US GHS (Hazcom 2012)

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