



## Product Information Sheet

# HYPOKLENZ

## Sodium Hypochlorite Solution

### DESCRIPTION AND APPLICATION

**HYPOKLENZ** is a low foam, high quality sodium hypochlorite solution for use in the food, dairy and beverage industries.

**HYPOKLENZ** contains around 10% w/w Available Chlorine on manufacture.

**HYPOKLENZ** is an oxidising disinfectant and is highly effective at killing a wide range of micro-organisms eg. bacteria (including spore formers), yeasts and fungi.

**HYPOKLENZ** is recommended for use as a terminal disinfectant after cleaning and can be applied via soak, CIP or manual cleaning methods. Its use must always be followed by rinsing with fresh water to remove any traces of Sodium Hypochlorite.

**HYPOKLENZ** can be used as a food processing aid, eg for the preparation of salad and vegetables, and also as an additive to **compatible** caustic detergents to help break down protein deposits. (for such applications check with the supplier).

**HYPOKLENZ** is registered as a biocidal product in Ireland, PCS No.93831

### USE INSTRUCTIONS

For general cleaning and disinfection **HYPOKLENZ** should be used at 1-3% v/v with a contact time of 5 minutes.

For terminal disinfection **HYPOKLENZ** should be used at about 200-250ppm Available Chlorine (ie 0.2% v/v of **HYPOKLENZ**) with a contact time of greater than five minutes.

**HYPOKLENZ** must not be used at temperatures in excess of 50°C, as metal corrosion could occur, even on stainless steel.

1ml **HYPOKLENZ** / Litre of water = 120 ppm AvCl<sub>2</sub>

### PRODUCT CHARACTERISTICS

Composition	Sodium hypochlorite solution containing 10% w/w available chlorine at manufacture.
Appearance	Clear Liquid
Colour	Yellow
pH (1% v/v)	11
Specific Gravity	1.17
Solubility	Soluble in water
Freezing Point	<-17°C
Nitrogen (N) Content	0 g/kg
Phosphorous (P) Content	0 g/kg
C O D	<0.7 g/l

### MATERIALS COMPATIBILITY

**HYPOKLENZ** is only suitable for use at recommended concentrations on stainless steel and certain plastic surfaces and in automatic and CIP equipment.

### SAFETY

Carefully read the Safety Data sheet of **HYPOKLENZ** and follow the chemical handling and disposal guidance. DO NOT mix with acids.

### STORAGE

Store **HYPOKLENZ** in its original packaging between 0°C and 35°C. Always store in original container away from extremes of temperature and out of direct sunlight.

Shelf life : Six months from manufacture.



**Safety Data Sheet**

**HYPOKLENZ**

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

**1.1. Product identifier**

Product form : Mixture  
Product name : HYPOKLENZ  
Product Code : HK  
Type of Product : Disinfectant  
Product group : CFH Product

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

**1.2.1. Relevant identified uses**

Main Use Category : Industrial use  
Industrial/Professional Use Spec : Industrial use  
Use of the substance/mixture : Disinfectant

**1.2.2. Uses advised against** : No additional information available

**1.3. Details of the supplier of the safety data sheet**

Hugh Crane Cleaning Equipment  
South Walsham Road  
Acle.  
Norwich  
NR13 3ES

Tel 01493 750072 Fax 01493 751854  
Email Sales@hughcrane.co.uk

**1.4. Emergency telephone number**

Emergency number : 01493 750072 (07:30-17:00 Mon-Fri, 07:30-12:00 Sat)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road Dublin 9	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road Birmingham B18 7QH	0344 892 0111	

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Met Corr 1 H290  
Skin Corr 1B H314  
Aquatic Acute 1 H400  
Aquatic Chronic 2 H411  
Full text of H statements : see section 16

**Adverse physicochemical, human health and environmental effects**

Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects.

**2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms (CLP)**



GHS05

GHS09



03HC2213 HYPOKLENZ  
 Page 3 of 9  
 SDS Revision Date 11/03/2021  
 Print Date 28/07/2021

- Signal word (CLP)** : Danger
- Hazardous ingredients** : Sodium Hypochlorite
- Hazard statements (CLP)** : H290 - May be corrosive to metals.  
 H314 - Causes severe skin burns and eye damage.  
 H410 - Very toxic to aquatic life with long lasting effects.
- Precautionary statements (CLP)** : P260 - Do not breathe mist, spray.  
 P273 - Avoid release to the environment.  
 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.  
 P313 - Get medical advice/attention.  
 P390 - Absorb spillage to prevent material damage.  
 EUH031 - Contact with acids liberates toxic gas.
- EUH Statements**

**2.3. Other hazards**  
 No additional information available

## SECTION 3: Composition/information on ingredients

**3.1. Substances**  
 Not applicable

**3.2. Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium Hypochlorite	(CAS-No.) 7681-52-9 (EC-No.) 231-668-3 (EC Index-No.) 017-011-00-1	10 - 30	Met. Corr. 1, H290 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411

### Specific concentration limits:

Name	Product identifier	Specific concentration limits: DSD/DPD	Specific concentration limits: CLP
Sodium Hypochlorite	(CAS-No.) 7681-52-9 (EC-No.) 231-668-3 (EC Index-No.) 017-011-00-1	(C >= 5) R31	(5 ≤C ≤100) EUH031

Full text of R- and H-statements: see section 16

## 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 person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration as needed. Obtain emergency medical attention.
- First-aid measures after skin contact** : Remove contaminated clothing. Drench affected area with water for at least 15 minutes. If skin irritation or rash occurs Get medical advice/attention.
- First-aid measures after eye contact** : Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Obtain emergency medical attention.
- First-aid measures after ingestion** : Do NOT induce vomiting. Rinse mouth. Drink directly plenty of water or milk. Obtain emergency medical attention.

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

- Acute Effects Inhalation** : May cause respiratory irritation. Contact with acids liberates toxic gas.
- Acute Effects Skin** : Causes severe burns
- Acute Effects Eyes** : Causes serious eye damage
- Acute Effects Oral Route** : Burns or irritation of the linings of the mouth, throat and gastrointestinal tract.

**4.3. Indication of any immediate medical attention and special treatment needed**  
 Prompt treatment is essential to minimise damage.



## SECTION 5: Firefighting measures

- 5.1. Extinguishing media**  
**Suitable extinguishing media** : Use extinguishing media appropriate for surrounding fire. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).
- 5.2. Special hazards arising from the substance or mixture**  
**Fire hazard** : Not flammable. Oxidising agent.  
**Reactivity in case of fire** : If the product is involved in a fire, it can release toxic chlorine gases.
- 5.3. Advice for firefighters**  
**Firefighting instructions** : Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment.  
**Protection during firefighting** : Use self-contained breathing apparatus and chemically protective clothing.

## SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures**  
**General measures** : Wear recommended personal protective equipment.
- 6.1.1. For non-emergency personnel**  
**Protective equipment** : Avoid any direct contact with the product. Use personal protective equipment as required.  
**Emergency procedures** : Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene.
- 6.1.2. For emergency responders**  
**Protective equipment** : Do not attempt to take action without suitable protective equipment.
- 6.2. Environmental precautions**  
Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
- 6.3. Methods and material for containment and cleaning up**  
**For containment** : Stop leak if safe to do so. Cover spill with non-combustible material eg. sand, earth, vermiculite. Sweep or shovel spills into appropriate container for disposal.  
**Methods for cleaning up** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation. Wash contaminated area with large amounts of water.
- 6.4. Reference to other sections** For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

- 7.1. Precautions for safe handling**  
**Precautions for safe handling** : Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not mix with other products.  
**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 cool. Avoid high temperatures. Protect from heat and direct sunlight.  
**Incompatible products** : Acids. Oxidising substances. Reducing agents. EDTA and salts thereof.  
**Incompatible materials** : Aluminium. Zinc. Base metals and alloys.
- 7.3. Specific end use(s)** : Cleaning product.

## SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters**  
**National Occupational Exposure and Biological Limit Values** : No additional information available.  
**Recommended Monitoring Procedures**: No additional information available.  
**Air Contaminants Formed** : No additional information available.  
**DNEL and PNEC** : No additional information available.  
**Control Banding** : No additional information available.



03HC2213 HYPOKLENZ  
Page 5 of 9  
SDS Revision Date 11/03/2021  
Print Date 28/07/2021

## 8.2. Exposure controls

**Appropriate engineering controls:** Good ventilation of the workplace required.

### Personal Protection

#### Eye/Face Protection

Goggles. Use eye protection according to EN166 designed to protect against liquid splashes. If there is a risk of liquid being splashed; wear suitable face shield.

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Standard EN 374 - Protective gloves against chemicals.

#### Eye protection:

Goggles. Standard EN 166 - Personal eye-protection. If there is a risk of liquid being splashed wear suitable face shield

#### Skin and body protection:

Wear suitable protective clothing. PVC apron covering the tops of the boots. Boots made of PVC.

#### Respiratory protection:

Not required for normal conditions of use

#### Thermal Hazards

No additional information available

#### Environmental Exposure Controls

No additional information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	: Liquid
<b>Colour</b>	: Light Yellow.
<b>Physical state/form</b>	: Clear Liquid.
<b>Odour</b>	: Chlorine.
<b>Odour threshold</b>	: Not available
<b>Melting point / range</b>	: Not available
<b>Freezing point</b>	: < -17°C
<b>Boiling point / range</b>	: Not available
<b>Flammability</b>	: Not available
<b>Explosive limits</b>	: Not available
<b>Lower Explosive Limits (LEL)</b>	: Not available
<b>Upper Explosive Limits (LEL)</b>	: Not available
<b>Flash point</b>	: Not available
<b>Auto-ignition temperature</b>	: Not available
<b>Decomposition temperature</b>	: Not available
<b>pH</b>	: 11 - 12, 1% v/v
<b>Viscosity, kinematic</b>	: Not available
<b>Solubility</b>	: Soluble in water.
<b>Partition Coefficient n-octanol/water Log Kow</b>	: Not available
<b>Vapour pressure</b>	: Not available
<b>Vapour pressure at 50°C</b>	: Not available
<b>Density</b>	: 1.17
<b>Relative density</b>	: Not available
<b>Relative vapour density at 20 °C</b>	: Not available
<b>Particle Size</b>	: Not applicable
<b>Particle Size Distribution</b>	: Not applicable
<b>Particle Shape</b>	: Not applicable
<b>Particle Aspect Ratio</b>	: Not applicable
<b>Particle Aggregation State</b>	: Not applicable
<b>Particle Agglomeration State</b>	: Not applicable
<b>Particle Specific Surface Area</b>	: Not applicable
<b>Particle Dustiness</b>	: Not applicable



**9.2. Other information**

**Information with regard to physical hazard classes:** No additional information available.  
**Other Safety Characteristics** : No additional information available.

**SECTION 10: Stability and reactivity**

- 10.1. Reactivity** Reacts violently with acids.
- 10.2. Chemical stability** Decomposes slowly on exposure to air.
- 10.3. Possibility of hazardous reactions** Contact with acids liberates very toxic gas.
- 10.4. Conditions to avoid** Direct sunlight. High temperatures.
- 10.5. Incompatible materials** Aluminium. Zinc. Base metals and alloys. Acids. Oxidising substances. Reducing agents.
- 10.6. Hazardous decomposition products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

- Acute toxicity (oral) :** Not classified
- Acute toxicity (dermal) :** Not classified
- Acute toxicity (inhalation) :** Not classified

**Sodium Hypochlorite (7681-52-9)**

LD50 oral rat	> 10500 mg/m <sup>3</sup>
LD50 dermal rat	> 2000 mg/kg bodyweight

- Skin corrosion/irritation** : Causes severe skin burns and eye damage.  
pH: 11-12, 1% v/v
- Serious eye damage/irritation** : Assumed to cause Serious eye damage,  
pH: 11-12, 1% v/v
- Respiratory or skin sensitisation** : Not classified
- Germ cell mutagenicity** : Not classified
- Carcinogenicity** : Not classified
- Reproductive toxicity** : Not classified
- STOT-single exposure** : Not classified
- STOT-repeated exposure** : Not classified
- Aspiration hazard** : Not classified
- 11.2 Information on Other Hazards** : No additional information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

- Hazardous to the Aquatic environment, short term (acute)** : Very toxic to aquatic life
- Hazardous to the Aquatic environment, long term (chronic)** : Toxic to aquatic life with long lasting effects.

**Sodium Hypochlorite (7681-52-9)**

LC50 fish 1	0.06 mg/l
LC50 fish 2	0.032 mg/l
LC50 other aquatic organisms 1	0.026 mg/l
EC50 Crustacea 1	0.141 mg/l
ErC50 (algae)	0.03 mg/l

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**



**Sodium Hypochlorite (7681-52-9)**

Partition Coefficient (n-octanol/water) Log Kow	-3.42
Bioaccumulative potential	There is no bioaccumulation.

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

**HYPOKLENZ**

Results of PBT assessment	The product does not meet the PBT and vPvB classification criteria
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**12.6 Endocrine Disrupting Properties**

No additional information available

**12.7. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Product/Packaging disposal recommendations** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

**SECTION 14: Transport information**

In accordance with ADR / IMDG

	<b>ADR</b>	<b>IMDG</b>
<b>14.1. UN number or ID number</b>	UN 1791	UN 1791
<b>14.2. UN proper shipping name</b>	HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION
<b>Transport document Description</b>	UN 1791, HYPOCHLORITE SOLUTION, 8, III (E) ENVIRONMENTALLY HAZARDOUS	UN 1791, HYPOCHLORITE SOLUTION, 8, III ENVIRONMENTALLY HAZARDOUS
<b>14.3. Transport hazard Classes</b>	8 	8 
<b>14.4. Packing group</b>	III	III
<b>14.5. Environmental hazards</b>	Dangerous for the environment : YES	Dangerous for the environment : YES Marine pollutant : YES

No supplementary information available

**14.6. Special precautions for user**

**- Overland transport**

- Classification code (ADR) : C9
- Special provisions (ADR) : 521
- Limited quantities (ADR) : 5I
- Packing instructions (ADR) : P001, IBC02, LP01, R001
- Special packing provisions (ADR) : B5
- Mixed packing provisions (ADR) : MP19
- Portable tank and bulk container instructions (ADR) : T4
- Portable tank and bulk container special provisions (ADR) : TP2, TP24
- Tank code (ADR) : L4BV(+)
- Tank Special provisions (ADR) : TE11



03HC2213 HYPOKLENZ  
Page 8 of 9  
SDS Revision Date 11/03/2021  
Print Date 28/07/2021

Vehicle for tank carriage : AT  
Transport Category (ADR) : 3  
Hazard identification number (Kemler No.) : 80  
Orange plates :



Tunnel restriction code (ADR) : E  
EAC Code : 2X  
- Transport by sea  
Special provisions (IMDG) : 223  
Limited quantities (IMDG) : 5 L  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03

Maritime Transport in Bulk according to IMO Instruments : Not applicable.

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No, 649/2012 of the European Parliament and of the Council of 4 July 2021 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No, 649/2012 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

#### 15.1.2. National regulations

No additional information available.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

**Indication of changes:** Changes made to Sections 1.3.4.5.6.7 and to general document layout

**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.

**SDS Revision Date** 11<sup>th</sup> March 2021

**Other information** : None.

Full text of R-, H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
EUH031	
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H411	Toxic to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.



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03HC2213 HYPOKLENZ

Page 9 of 9

SDS Revision Date 11/03/2021

Print Date 28/07/2021

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Met. Corr. 1	H290	Calculation method
Skin Corr. 1B	H314	Calculation method
Aquatic Acute 1	H411	Calculation method
Aquatic Chronic 2	H411	Calculation method

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

**End of Safety Data Sheet.**