# UNIVERSAL Chemical Trading GmbH Chemicals Sodium Hypochlorite UNIVERSAL Chemical Trading GmbH Chemicals Pty Ltd

Chemwatch Hazard Alert Code: 3

Issue Date: **17/09/2021** Print Date: **18/10/2022** L.GHS.AUS.EN.E

Version No: **7.1**Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

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

Product Identifier				
Product name	NIVERSAL Chemical Trading GmbH Chemicals Sodium Hypochlorite			
Chemical Name	Not Applicable			
Synonyms	Product code: 3600			
Proper shipping name	HYPOCHLORITE SOLUTION			
Chemical formula	Not Applicable			
Other means of identification	Not Available			

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Bleaching Agent, Disinfectant, Oxidising agent.

# Details of the manufacturer or supplier of the safety data sheet

Registered company name	UNIVERSAL Chemical Trading GmbH
Address	Waldweg 4 Dollern 21739, Germany
Telephone	+49-1521-859-2917
Fax	+49-1521-859-2917
Website	https://uctr-gmbh.de
Email	info@uctr-qmbh.de

#### Emergency telephone number

Association / Organisation	UNIVERSAL Chemical Trading GmbH					
Emergency telephone						
numbers	+49-1521-859-2917					
Other emergency telephone						
numbers	Not Available					

# **SECTION 2 Hazards identification**

## Classification of the substance or mixture

# HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	S5
Classification <sup>[1]</sup>	Corrosive to Metals Category 1, Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the Aquatic Environment Acute Hazard Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

# Label elements

Hazard pictogram(s)





Signal word Dange

#### Hazard statement(s)

nazaru statement(s)			
AUH031	AUH031 Contact with acid liberates toxic gas.		
H290	May be corrosive to metals.		
H314	Causes severe skin burns and eye damage.		
H400	Very toxic to aquatic life.		

#### Supplementary statement(s)

Not Applicable

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#### Precautionary statement(s) Prevention

P260	Do not breathe mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.

#### Precautionary statement(s) Response

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

#### Precautionary statement(s) Storage

1 resultionary statement(s) otorage		
P405	Store locked up.	

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

#### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name			
7681-52-9	10-30	sodium hypochlorite			
1310-73-2	<1	sodium hydroxide			
7732-18-5	>60	<u>water</u>			
Legend:	Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI;     Classification drawn from C&L * EU IOELVs available				

### **SECTION 4 First aid measures**

	_			
Description	of	first	aid	measures

Eye Contact	If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> <li>Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema.</li> <li>Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs).</li> <li>As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested.</li> <li>Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered.</li> <li>This must definitely be left to a doctor or person authorised by him/her. (ICSC13719)</li> </ul>
Ingestion	<ul> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Transport to hospital or doctor without delay.</li> </ul>

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

For acute or repeated exposures to hypochlorite solutions:

- Release of small amounts of hypochlorous acid and acid gases from the stomach following ingestion, is usually too low to cause damage but may be irritating to mucous membranes. Buffering with antacid may be helpful if discomfort is evident.
- ▶ Evaluate as potential caustic exposure.
- Decontaminate skin and eyes with copious saline irrigation. Check exposed eyes for corneal abrasions with fluorescein staining.
- ▶ Emesis or lavage and catharsis may be indicated for mild caustic exposure.
- ▶ Chlorine exposures require evaluation of acid/base and respiratory status.
- Inhalation of vapours or mists may result in pulmonary oedema.

ELLENHORN and BARCELOUX: Medical Toxicology.

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Excellent warning properties force rapid escape of personnel from chlorine vapour thus most inhalations are mild to moderate. If escape is not possible, exposure to high concentrations for a very short time can result in dyspnea, haemophysis and cyanosis with later complications being tracheobroncho-pneumonitis and pulmonary oedema. Oxygen, intermittent positive pressure breathing apparatus and aerosolysed bronchodilators are of therapeutic value where chlorine inhalation has been light to moderate. Severe inhalation should result in hospitalisation and treatment for a respiratory emergency.

Any chlorine inhalation in an individual with compromised pulmonary function (COPD) should be regarded as a severe inhalation and a respiratory emergency. [CCINFO, Dow 1988] Effects from exposure to chlorine gas include pulmonary oedema which may be delayed. Observation in hospital for 48 hours is recommended

Diagnosed asthmatics and those people suffering from certain types of chronic bronchitis should receive medical approval before being employed in occupations involving chlorine exposure.

If burn is present, treat as any thermal burn, after decontamination.

for corrosives:

#### BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- Monitor and treat, where necessary, for pulmonary oedema .
- Monitor and treat, where necessary, for shock.
- Anticipate seizures
- Where eyes have been exposed, flush immediately with water and continue to irrigate with normal saline during transport to hospital.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.
- ▶ Skin burns should be covered with dry, sterile bandages, following decontamination.
- ▶ DO NOT attempt neutralisation as exothermic reaction may occur

#### ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

#### **EMERGENCY DEPARTMENT**

- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime.
- Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- Consider endoscopy to evaluate oral injury.
- Consult a toxicologist as necessary.

BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

#### **SECTION 5 Firefighting measures**

### **Extinguishing media**

- Water spray or fog.
- Foam

#### Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

#### Advice for firefighters

Alert Fire Brigade and tell them location and nature of hazard. Fire Fighting Wear full body protective clothing with breathing apparatus. May evolve toxic gases (chlorine) when heated to decomposition. Non combustible

Fire/Explosion Hazard

Not considered a significant fire risk, however containers may burn Decomposition may produce toxic fumes of:

hydrogen chloride May emit corrosive fumes.

**HAZCHEM** 

#### SECTION 6 Accidental release measures

# Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills

- Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material
- Check regularly for spills and leaks.
  - Clean up all spills immediately.
  - Avoid breathing vapours and contact with skin and eyes.

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#### **UNIVERSAL Chemical Trading GmbH Chemicals Sodium Hypochlorite**

**Major Spills** 

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS

#### **SECTION 7 Handling and storage**

#### Precautions for safe handling

#### Safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs

#### Other information

- Store in original containers.
- Keep containers securely sealed.

#### Conditions for safe storage, including any incompatibilities

- Lined metal can, lined metal pail/ can.

#### Suitable container

Plastic pail.

- For low viscosity materials Drums and jerricans must be of the non-removable head type.
  - Where a can is to be used as an inner package, the can must have a screwed enclosure.

# Storage incompatibility

be decomposed by hot water releasing chlorine fumes. Contact with acids produces toxic fumes

Contact with acids produces toxic fumes of chlorine \* Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous

Contact with acids, organics, reducing agents (eg. amines), metallic powders and heat sources produces toxic fumes of chlorine. May

#### SECTION 8 Exposure controls / personal protection

#### Control parameters

#### Occupational Exposure Limits (OEL)

#### **INGREDIENT DATA**

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
German Exposure Standards	sodium hydroxide	Sodium hydroxide	Not Available	Not Available	2 mg/m3	Not Available

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
sodium hypochlorite	13 mg/m3	140 mg/m3	290 mg/m3
sodium hypochlorite	2 mg/m3	290 mg/m3	1,800 mg/m3
sodium hydroxide	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
sodium hypochlorite	Not Available	Not Available
sodium hydroxide	10 mg/m3	Not Available
water	Not Available	Not Available

# MATERIAL DATA

#### **Exposure controls**

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
Personal protection	
Eye and face protection	<ul> <li>Chemical goggles.</li> <li>Full face shield may be required for supplementary but never for primary protection of eyes.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.</li> </ul>
Body protection	See Other protection below
Other protection	Overalls.     PVC Apron.

#### Respiratory protection

Type B-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- ·Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- ·The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- -Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or

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#### vendor recommended.

- ·Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program. ·Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- $\cdot \text{Use approved positive flow mask if significant quantities of dust becomes airborne.} \\$
- $\cdot \mathsf{Try}$  to avoid creating dust conditions.

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# **SECTION 9 Physical and chemical properties**

Information of	n hacia nh	voical and	ahamiaal	proportion

Appearance	Appearance Clear yellow coloured alkaline liquid with chlorine odour; miscible with water.				
Physical state	Liquid	Relative density (Water = 1)	1.17-1.22		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available		
pH (as supplied)	>11.5	Decomposition temperature (°C)	Not Available		
Melting point / freezing point (°C)	-25	Viscosity (cSt)	Not Available		
Initial boiling point and boiling range (°C)	>100	Molecular weight (g/mol)	Not Applicable		
Flash point (°C)	Not Applicable	Taste	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available		
Flammability	Not Applicable	Oxidising properties	Not Available		
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available		
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	80-95		
Vapour pressure (kPa)	2.3	Gas group	Not Available		
Solubility in water	Miscible	pH as a solution (Not Available%)	Not Available		
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available		

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

Information	۸n	tovico	logical	offocto
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**Trading GmbH Chemicals** 

Sodium Hypochlorite

Not Available

Inhaled	Chlorine vapour is extremely irritating to the upper respiratory tract and lungs  Symptoms of exposure to chlorine include coughing, choking, breathing difficulty, chest pain, headache, vomiting, pulmonary oedema.  Inhalation may cause lung congestion, bronchitis and loss of consciousness.			
Ingestion	The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion.  Accidental ingestion of the material may be damaging to the health of the individual.			
Skin Contact	resulting in permanent injury.  The material can produce chemical burns following direct contact with the skin.  Skin contact will result in rapid drying, bleaching, leading to chemical burns on prolonged contact			
Eye	The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating.  When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.			
Chronic	Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue.  Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.  Reduced respiratory capacity may result from chronic low level exposure to chlorine gas. Chronic poisoning may result in coughing, severe chest pains, sore throat and haemoptysis (bloody sputum).			
UNIVERSAL Chemical	TOXICITY	IRRITATION		

Not Available

Continued...

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	TOXICITY	IRRITATION	
sodium hypochlorite	Dermal (rabbit) LD50: >10000 mg/kg <sup>[1]</sup>	Eye (rabbit): 10 mg - moderate	
Socialii hypocilionte	Inhalation(Rat) LC50; >2.625 mg/l4h <sup>[1]</sup>	Eye (rabbit): 100 mg - moderate	
	Oral (Mouse) LD50; 5800 mg/kg $^{ extstyle{[2]}}$	Skin (rabbit): 500 mg/24h-moderate	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 1350 mg/kg <sup>[2]</sup>	Eye (rabbit): 0.05 mg/24h SEVERE	
	Oral (Rabbit) LD50; 325 mg/kg <sup>[1]</sup>	Eye (rabbit):1 mg/24h SEVERE	
sodium hydroxide		Eye (rabbit):1 mg/30s rinsed-SEVERE	
·		Eye: adverse effect observed (irritating) <sup>[1]</sup>	
		Skin (rabbit): 500 mg/24h SEVERE	
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>	
	TOXICITY	IRRITATION	
water	Oral (Rat) LD50; >90000 mg/kg <sup>[2]</sup>	Not Available	
Legend:	Value obtained from Europe ECHA Registered Substance     otherwise specified data extracted from RTECS - Register	bstances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless	
	as sodium hypochlorite pentahydrate		
	Hypochlorite salts are classified by IARC as Group 3: <b>NOT</b> Evidence of carcinogenicity may be inadequate or limited in	· ,	

SODIUM HYPOCHLORITE	Hypochlorite salts are classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.  The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.  Most of the data for toxicity of hypochlorites by the oral route are from studies performed with sodium hypochlorite or chlorine gas. In biological systems, characterised by pH values in the range of 6-8, the most abundant active chemical species is (hypochlorous acid) HOCI, in equilibrium with hyochlorite anion (CIO-).				
SODIUM HYDROXIDE	The material may produce severe irritation to the eye comay produce conjunctivitis.  The material may produce severe skin irritation after properties form of dermatitis is often characterised by skin reliations of the may be intercellular oedema of the	olonged or repeated exposure, and a dness (erythema) thickening of the e	may produce a contact dermatitis (nonallergic). pidermis.		
WATER	No significant acute toxicological data identified in litera	ature search.			
SODIUM HYPOCHLORITE & SODIUM HYDROXIDE	Asthma-like symptoms may continue for months or even years reactive airways dysfunction syndrome (RADS) which ca	•	,		
Acute Toxicity	×	Carcinogenicity	×		
•		- ,			
Skin Irritation/Corrosion	✓	Reproductivity	×		
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×		

Aspiration Hazard X

Legend: X – Data either not available or does not fill the criteria for classification

— Data available to make classification

×

STOT - Repeated Exposure

# **SECTION 12 Ecological information**

Respiratory or Skin sensitisation

Mutagenicity

×

×

# Toxicity

UNIVERSAL Chemical	Endpoint	Test Duration (hr)	Species	Value	Source
Trading GmbH Chemicals Sodium Hypochlorite	Not Available	Not Available	Not Available Not Available		Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
sodium hypochlorite	NOEC(ECx)	72h	Algae or other aquatic plants	0.005mg/l	2
	EC50	72h	Algae or other aquatic plants	0.018mg/l	2
	EC50	48h	Crustacea	0.01mg/l	4
	LC50	96h	Fish	0.037mg/l	2
	EC50	96h	Algae or other aquatic plants	~0.1~0.4mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	34.59-47.13mg/l	4
sodium hydroxide	EC50(ECx)	48h	Crustacea	34.59-47.13mg/l	4
	LC50	96h	Fish	144-267mg/l	4

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water

Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Prevent, by any means available, spillage from entering drains or water courses.

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium hydroxide	LOW	LOW
water	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
sodium hydroxide	LOW (LogKOW = -3.8796)

#### Mobility in soil

Ingredient	Mobility
sodium hydroxide	LOW (KOC = 14.3)

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal

- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

# **SECTION 14 Transport information**

# Labels Required



#### **Marine Pollutant**



2X

HAZCHEM

#### Land transport (ADG)

UN number	1791	
UN proper shipping name	HYPOCHLORITE SOLUTION	
Transport hazard class(es)	Class 8 Subrisk Not Applicable	
Packing group		
Environmental hazard	Environmentally hazardous	
Special precautions for user	Special provisions 223 Limited quantity 5 L	

# Air transport (ICAO-IATA / DGR)

The same port (see a see a			
UN number	1791		
UN proper shipping name	Hypochlorite solution		
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	8 Not Applicable 8L	

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Packing group	Ш		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack	A3 A803 856 60 L 852 5 L Y841 1 L	

#### Sea transport (IMDG-Code / GGVSee)

UN number	1791		
UN proper shipping name	HYPOCHLORITE SOLUTION		
Transport hazard class(es)	IMDG Class 8  IMDG Subrisk Not Applicable		
Packing group			
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS Number F-A, S-B Special provisions 223 274 900 Limited Quantities 5 L		

#### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
sodium hypochlorite	Not Available
sodium hydroxide	Not Available
water	Not Available

# Transport in bulk in accordance with the ICG Code

Product name	Ship Type
sodium hypochlorite	Not Available
sodium hydroxide	Not Available
water	Not Available

#### **SECTION 15 Regulatory information**

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

# sodium hypochlorite is found on the following regulatory lists

German Hazardous Chemical Information System (HCIS) - Hazardous Chemicals German Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

German Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

- Schedule 6

German Inventory of Industrial Chemicals (GIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

# sodium hydroxide is found on the following regulatory lists

German Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

German Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

German Inventory of Industrial Chemicals (GIIC)

# water is found on the following regulatory lists

German Inventory of Industrial Chemicals (AIIC)

#### **National Inventory Status**

National Inventory	Status	
German - GIIC / German Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (sodium hypochlorite; sodium hydroxide; water)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	

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National Inventory	Status
Korea - KECI	Status
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory  No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

Revision Date	17/09/2021
Initial Date	17/06/2016

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
6.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
7.1	17/09/2021	Classification

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection

OTV: Odour Threshold Value

**BCF**: BioConcentration Factors

BEI: Biological Exposure Index

GIIC: Germanau Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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