

**Sodium chlorite****71388-1KG**

Version 1.2

Issuing date

Revision Date 11/29/2017

Print Date 08/07/2019

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name : Sodium chlorite

Number : 000000020568

Recommended use of the chemical and restrictions on use : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH  
Wunstorfer Straße 40  
Seelze, 30926

For further information, please contact: : 1-800-368-0050  
+1-231-726-3171  
(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**  
: **Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**  
: **In Japan: +(81)-345209637**  
: (24 hours/day, 7 days/week)

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture**

Classification of the substance or mixture : Oxidizing solids, Category 2  
Acute toxicity, Category 3, Oral  
Acute toxicity, Category 2, Dermal  
Skin corrosion, Category 1B  
Serious eye damage, Category 1  
Specific target organ toxicity - repeated exposure, Category 2, Blood  
Acute aquatic toxicity, Category 1

**GHS Label elements, including precautionary statements**

Symbol(s)

:



**Sodium chlorite****71388-1KG**

Version 1.2

Issuing date

Revision Date 11/29/2017

Print Date 08/07/2019

Signal word : Danger

Hazard statements : May intensify fire; oxidizer.  
Toxic if swallowed.  
Fatal in contact with skin.  
Causes severe skin burns and eye damage.  
May cause damage to organs (/\*\_ORGAN\_REPEAT/\*)  
through prolonged or repeated exposure.  
Very toxic to aquatic life.

Precautionary statements : **Prevention:**  
Keep away from heat.  
Keep/Store away from clothing/ combustible materials.  
Take any precaution to avoid mixing with combustibles.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Do not get in eyes, on skin, or on clothing.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor.  
Remove/Take off immediately all contaminated clothing.  
Wash contaminated clothing before reuse.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
Collect spillage.

**Storage:**

Store locked up.

**Disposal:**

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Sodium chlorite****71388-1KG**

Version 1.2

Issuing date

Revision Date 11/29/2017

Print Date 08/07/2019

Formula : ClNaO2

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Sodium chlorite	7758-19-2	98.00 %
Sodium chlorite		
Sodium carbonate	497-19-8	2.00 %
Sodium carbonate		

Note: Deleterious Substances - Cabinet Order

**4. FIRST AID MEASURES**

- General advice : First aider needs to protect himself.  
Move out of dangerous area.  
Take off all contaminated clothing immediately.
- Inhalation : If breathed in, move person into fresh air.  
Call a physician immediately.
- Skin contact : After contact with skin, wash immediately with plenty of water.  
Remove contaminated clothing immediately  
Call a physician immediately.
- Eye contact : Rinse thoroughly with plenty of water, also under the eyelids.  
Protect unharmed eye.  
Call a physician immediately.
- Ingestion : When swallowed, allow water to be drunk.  
Do NOT induce vomiting.  
Call a physician immediately.

**5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray jet  
Dry powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)
- Specific hazards during firefighting : Strong oxidizer. Contact with other material may cause fire.  
Keep away from reducing agents.  
Fire may cause evolution of:  
Chlorine (Cl<sub>2</sub>)  
Chlorates  
Gaseous hydrogen chloride (HCl).

**Sodium chlorite****71388-1KG**

Version 1.2

Issuing date

Revision Date 11/29/2017

Print Date 08/07/2019

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.  
No unprotected exposed skin areas.

Further information : Use water spray to cool unopened containers.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Wear personal protective equipment. Unprotected persons must be kept away.  
Do not breathe dust.  
Do not get in eyes, on skin, or on clothing.  
Avoid dust formation.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Discharge into the environment must be avoided.  
Do not let product enter drains.

Methods and materials for containment and cleaning up : Use mechanical handling equipment.  
Protect from contamination.  
Take any precaution to avoid mixing with combustibles.  
Do not pick up with the help of saw-dust or other combustible substances.  
Sweep up and shovel into suitable containers for disposal.  
Dispose of in accordance with local regulations.

**7. HANDLING AND STORAGE****Handling**

Precautions for safe handling : Wear personal protective equipment.  
Use only in well-ventilated areas.  
Do not breathe dust.  
Do not get in eyes, on skin, or on clothing.

Advice on protection against fire and explosion : Keep away from combustible material.  
Keep away from easily oxidizable materials.  
Keep away from heat and sources of ignition.

**Storage**

Conditions for safe storage, including any incompatibilities : Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

**Sodium chlorite****71388-1KG**

Version 1.2

Issuing date

Revision Date 11/29/2017

Print Date 08/07/2019

Keep away from heat and sources of ignition.  
Do not store on wooden pallets.

Advice on common storage : Do not store with combustible materials.  
Do not store near acids.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Appropriate engineering controls**

Local exhaust

**Individual protection measures, such as personal protective equipment**

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection : Wear nitrile rubber gloves to avoid contact with the skin.  
Gloves must be inspected prior to use.  
Replace when worn.

Eye protection : Safety goggles

Skin and body protection : Complete suit protecting against chemicals

Hygiene measures : Keep working clothes separately.  
Remove all contaminated clothing under the shower.  
Keep contaminated clothing under water.  
Do not eat, drink or smoke when using this product.  
Wash thoroughly after handling.

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.  
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.  
Do not breathe dust.  
Do not get in eyes, on skin, or on clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : solid

Colour : white

**Sodium chlorite****71388-1KG**

Version 1.2

Issuing date

Revision Date 11/29/2017

Print Date 08/07/2019

pH : 10 - 11 at 100.00 g/l, 20 °C

Decomposition temperature :  $\geq 180$  °C

Boiling point/boiling range : Note: no data available

Flash point : Note: Not applicable

Flammability : no data available

Lower explosion limit : 7 %(V)

Upper explosion limit : Note: no data available

Vapour pressure :  
Note: no data available

Density : Note: no data available

Water solubility : ca. 572 g/l at 20 °C  
at 7.0 pH

Method: OECD Test Guideline 105

Partition coefficient: n-octanol/water : log Pow:  $< -2.7$   
Method: OECD Test Guideline 107

Ignition temperature : Note: Not applicable

Decomposition temperature : Note: No decomposition if used as directed.

Molecular weight : 90.44 g/mol

**Sodium chlorite****71388-1KG**

Version 1.2

Issuing date

Revision Date 11/29/2017

Print Date 08/07/2019

**10. STABILITY AND REACTIVITY**

Chemical stability	: May intensify fire; oxidizer.
Possibility of hazardous reactions	: Decomposes on heating. Potential for exothermic hazard
Conditions to avoid	: Protect from contamination. Protect from heat/overheating. Avoid dust formation.
Incompatible materials to avoid	: Combustible material Organic materials Acids Strong reducing agents Sulphur compounds Ammonia Reactions with metals in powder form.
Hazardous decomposition products	: Oxygen Chlorine dioxide

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: LD50: 284 mg/kg Species: Rat Method: OECD Test Guideline 401
Acute inhalation toxicity	: Note: no data available
Acute dermal toxicity	: LD50: 134 mg/kg Species: Rabbit
Skin irritation	: Species: Rabbit Result: Causes burns.
Eye irritation	: Species: Rabbit Result: Risk of serious damage to eyes.
Sensitisation	: Species: Guinea pig Result: Not a skin sensitizer.

**Sodium chlorite****71388-1KG**

Version 1.2

Issuing date

Revision Date 11/29/2017

Print Date 08/07/2019

Method: OECD Test Guideline 406

Repeated dose toxicity  
Sodium chlorite

: Species: Rat  
Application Route: Oral  
Exposure time: (13 Weeks)  
NOAEL (No observed adverse effect level): 10 mg/kg  
Target Organs: Blood

Genotoxicity in vitro

: Note: Not classified due to data which are conclusive although insufficient for classification.

**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish

: LC50: 105 mg/l  
Exposure time: 96 h  
Species: Cyprinodon variegatus (sheepshead minnow)

Toxicity to daphnia and other  
aquatic invertebrates

: LC50: 0.65 mg/l  
Exposure time: 96 h  
Species: Mysidopsis bahia (opossum shrimp)

Toxicity to algae

: EC50: 1 mg/l  
Exposure time: 96 h  
Species: Pseudokirchneriella subcapitata (green algae)

Toxicity to bacteria

: EC50: 100 mg/l  
Exposure time: 3 h  
Species: activated sludge  
Method: OECD Test Guideline 209

**Persistence and degradability**

Biodegradability

: Note: The methods for determining biodegradability are not applicable to inorganic substances.

**Other adverse effects**



**Sodium chlorite****71388-1KG**

Version 1.2

Issuing date

Revision Date 11/29/2017

Print Date 08/07/2019

Additional ecological information : Should not be released into the environment.

**13. DISPOSAL CONSIDERATIONS**

Disposal methods : In accordance with local and national regulations.

**14. TRANSPORT INFORMATION****ADR**

UN/ID No. : UN 1496  
Description of the goods : SODIUM CHLORITE  
Class : 5.1  
Packing group : II  
Classification Code : O2  
Hazard Identification Number : 50  
Labels : 5.1

**IATA**

UN/ID No. : UN 1496  
Description of the goods : Sodium chlorite  
Class : 5.1  
Packing group : II  
Labels : 5.1  
Packing instruction (cargo aircraft) : 562  
Packing instruction (passenger aircraft) : 558  
Packing instruction (passenger aircraft) : Y544

**IMDG**

UN/ID No. : UN 1496  
Description of the goods : SODIUM CHLORITE  
Class : 5.1  
Packing group : II  
Labels : 5.1  
EmS Number 1 : F-H  
EmS Number 2 : S-Q

Marine pollutant : yes

**Sodium chlorite****71388-1KG**

Version 1.2

Issuing date

Revision Date 11/29/2017

Print Date 08/07/2019

**15. REGULATORY INFORMATION****National regulatory information**

Vessel Safety Law : Oxidizing substances and organic peroxides (Article 2 and 3 of  
JP VSL rules on shipping and storage of dangerous goods and its  
Attached Table 1)

Aviation Law : Oxidizing substances and organic peroxides (Article 194 of The  
JP AVL Enforcement Rules of Aviation Law and its Attached Table 1)

Fire Service Law : Group 1 Oxidizing solids  
Chlorites  
Hazardous rank I  
Be careful with fire and shock

Poisonous and Deleterious : Deleterious substance not for pharmaceutical use  
Substances Control Law 1.2  
Sodium chlorite 7758-19-2

**Other international regulations****Notification status**

US. Toxic Substances : On TSCA Inventory  
Control Act

Australia. Industrial Chemical : On the inventory, or in compliance with the inventory  
(Notification and  
Assessment) Act

Canada. Canadian : All components of this product are on the Canadian DSL  
Environmental Protection Act  
(CEPA). Domestic  
Substances List (DSL)

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals : On the inventory, or in compliance with the inventory  
Inventory (KECI)

Philippines. The Toxic : On the inventory, or in compliance with the inventory  
Substances and Hazardous  
and Nuclear Waste Control

**Sodium chlorite****71388-1KG**

Version 1.2

Issuing date

Revision Date 11/29/2017

Print Date 08/07/2019

Act

China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

**16. OTHER INFORMATION**

	<b>HMIS III</b>	<b>NFPA</b>
Health hazard	: 3*	1
Flammability	: 0	0
Physical Hazard	: 2	
Instability	:	1
Special hazard.	:	OX

\* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

**Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 05/26/2017

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group