

SHOCK

1. IDENTIFICATION

Product name : SHOCK

Product code : 30-24220 Other means of identification : Not available.

Supplier : Chimie Internationales inc.

9585 ignace, Brossard, Qc, J4Y 2R4

biossaid, QC, J41 ZR4

Identified uses : Consumer products: Pool & Spa water treatment

product

This MSDS is provided as information only. The product is not WHIMS regulated. The product is regulated under the PCP act and packaged as a

consumer product.

Date of issue (YYYY-MM-DD) : 2016-11-03

In case of emergency : Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)

2. HAZARDS IDENTIFICATION

Information in this section only concerns the product as supplied. Contact your account manager to get more information on diluted form hazards identification.

Product Classification : OXIDIZING SOLIDS - Category 2

ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

Signal word : Danger Hazard pictograms



Manufacturer : Manufactured for:

Uses advised against :

Chimie Internationales inc.

Only use this product as directed. Read label before

9585 ignace, Brossard, Qc, J4Y 2R4





Hazard statements : May intensify fire; oxidizer.

May cause respiratory irritation. May cause severe eye damage. May be harmful if swallowed May cause skin irritation.

Precautionary statements

General : Corrosive material. May intensify fire; oxidizer. Handle with care. Read label before use. Keep out of reach of children.

Prevention : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-

ventilated area. Avoid breathing dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Keep away from combustible material. Specific protective equipment is suggested for this product. See section 8 for details.

Response : IF INHALED: Move person to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth. IF ON SKIN: Take off

contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. Rinse with water. IF IN EYES: Remove

contact lenses, if present and easy to do. Continue rinsing.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

: No specific measure needed. See section 7 for more information on handling and storage.

Supplemental label elements : No additional information.

Other hazards which do not result in

classification

Storage

: None known.



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3. COMPOSITION/INFORMATION ON INGREDIENTS Substance/mixture : Mixture Ingredient name CAS number % (w/w) 60 - 100 calcium hypochlorite 7778-54-3 Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

Description of required first aid measures

In case of contact with eyes, flush with fresh water. Check for and remove any contact lenses. Continue rinsing. If irritation persists, get Eve contact

medical attention. Chemical burns must be treated promptly by a physician. Get medical attention if blistering occurs or redness persists.

Get medical advice/attention. Get medical attention if irritation persist.

Skin contact Remove contaminated clothing and wash it before reuse. Chemical burns must be treated promptly by a physician. Get medical attention if

blistering occurs or redness persists. Get medical attention if irritation occur.

Ingestion Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Chemical burns must be treated promptly

by a physician. Get medical attention if symptoms occur. Get medical attention if you feel unwell.

Move victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer Inhalation

should wear an appropriate mask or self-contained breathing apparatus. Get medical attention. If necessary, call a poison center or

physician. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Eve contact Adverse symptoms may include the following:

pain watering redness

Skin contact Adverse symptoms may include the following:

pain or irritation redness blistering may occur

Ingestion Adverse symptoms may include the following:

stomach pains nausea or vomiting headache diarrhea

Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Notes to physician

See toxicological information (Section 11)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

Specific hazards arising from the Oxidizing material. May intensify fire. Fire water contaminated with this material must be contained and prevented chemical

from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

Special fire-fighting procedures Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action should be taken

involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use

water spray to keep fire-exposed containers cool.

Special protective equipment for fire-Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a

full face-piece operated in positive pressure mode



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Personal precautions No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Initiate spill response procedures if required. Personal protection Put on appropriate personal protective equipment (see Section 8). Cleaning method Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use a water rinse for final clean-up.

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Handling Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands

and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See

Section 8 for additional information on hygiene measures.

Storage and Incompatibility Store in accordance with local regulations. Separate from reducing agents and combustible materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep out of reach of children. Store away from

incompatible materials (see Section 10).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

None.

exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or

statutory limits.

Individual protection measures

Eye/face protection Continued or severe exposures might required to wear a face shield or chemical splash goggles. It is minimally suggested to

wear safety glasses while using or handling this product.

Hands and Body protection It is suggested to wear chemical-reisitant gloves while using or handling this product.

Respiratory protection It is suggested to wear dust-protection mask for prolonged or intense exposures.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid. pH 10.4 [Conc. (% w/w): 1%] Flash point Not available.

Color White. Relative density Not available. **Melting point** Not available. Odor Chlorine Viscosity Not available. **Boiling point** Not available. Odor threshold Not available. Vapor pressure Not available. Fire point : Not available.

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Solubility in water : Not available. Vapor density : Not available. Evaporation rate : Not available.

Decomposition temperature : Not available. Auto-ignition temperature : Not available.

Partition coefficient: n-octanol/ : Not available. Flammability (solid, gas) : Not available.

water

Lower and upper explosive (flammable) limits : Not available.

10. STABILITY AND REACTIVITY

Reactivity No specific test data related to reactivity available for this product or its ingredients.

Chemical stability The product is stable.

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acids

combustible materials reducing materials

Conditions to avoid No specific data.



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Possibility of hazardous reactions Hazardous reactions or instability may occur under certain conditions of storage or use.

Conditions may include the following: contact with combustible materials Reactions may include the following: risk of causing or intensifying fire

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Route of exposure Routes of entry anticipated: Oral, Inhalation.

Routes of entry not anticipated: Dermal.

Potential acute health effects Symptoms

Eye contact May cause eye burn Adverse symptoms may include the following:

pain watering redness

Skin contact May cause skin irritation. Adverse symptoms may include the following:

pain or irritation redness blistering may occur

Ingestion Harmful if swallowed. May cause burns to

mouth, throat and stomach.

Adverse symptoms may include the following:

stomach pains nausea or vomiting headache diarrhea

Inhalation May cause respiratory irritation. Adverse symptoms may include the following:

respiratory tract irritation

coughing

Toxicity data

Product/ingredient name	Result	Species	Dose	Exposure
calcium hypochlorite	LD50 Oral	Rat	850 mg/kg	-

Information on toxicological effects

 Mutagenicity
 No known significant effects or critical hazards.

 Teratogenicity
 No known significant effects or critical hazards.

 Developmental effects
 No known significant effects or critical hazards.

 Fertility effects
 No known significant effects or critical hazards.

Sensitization Not available.

Carcinogenicity No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Ecotoxicity data

Product/ingredient name	Result	Species	Exposure
calcium hypochlorite	Acute EC50 0.26 mg/dm3 Fresh water	Algae - Scenedesmus quadricauda	72 hours
	Acute EC50 0.073 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 55 μg/l Marine water	Crustaceans - Panopeus herbstii -	48 hours
		Larvae	
	Acute LC50 23 μg/l Fresh water	Fish - Osmerus mordax - Fry	96 hours

Persistence and : Unknown Bioaccumulative potential : Unknown Mobility in soil : Unknown Other adverse effects : Unknown degradability



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13. DISPOSAL CONSIDERATIONS

Disposal methods Dispose content and container in accordance with local, regional and national regulation in force.

14. TRANSPORT INFORMATION

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	TDG Placard
TDG Classification	2880	UN 2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE	5.1	II	Ö

Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.23-2.25 (Class 5).

Additional information

See shipping documents for specific information on DOT, IMDG or IATA

15. REGULATORY INFORMATION

Canadian lists

Canadian NPRI

None of the components are listed.

CEPA Toxic substances

None of the components are listed.

Canada inventory

All components are listed or exempted.

International lists

United States All components are listed or exempted.

16. OTHER INFORMATION

Hazardous Material Information System (U.S.A.)

Health Hazard 2
Fire Hazard 0
Reactivity 1
Personal Protection F

Date of issue/Date of revision (YYYY-MM- : 2016-11-03

DD)

Prepared by : Regulatory Affairs Department

Chimie Internationales inc.

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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