

Safety Data Sheet
*acc. to SOR/2015-17 and OSHA 29 CFR Parts 1910, 1915,
1926*

1 Identification

- **Product identifier**
 - Trade name: ***Super Detergent, Machine Dishwashing Capsule***
 - **Article number:** 0565518103
 - **Recommended use:** Dishwasher formulation
 - **Restrictions on use:**
All other uses than those indicated on the product label and technical data sheet.
- **Details of the supplier of the safety data sheet:**
 - **Manufacturer:**
Chandler (Enviro)
365, Frenette Avenue, Caledonia Industrial Park
Moncton, NB,
Canada
E1H 3S5
1-888-389-2436
 - **Client Identification Number:** 195501
 - **Emergency telephone number:** CANUTEC 1-613-996-6666

2 Hazard(s) identification

- **Classification of the product:**



GHS05

Skin Corr. 1B H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

Eye Dam. 1 H318 CAUSES SERIOUS EYE DAMAGE.



GHS07

STOT SE 3 H335 MAY CAUSE RESPIRATORY IRRITATION.

- **Label elements:**

- **Hazard pictograms:**



GHS05 GHS07

- **Signal word:** Danger

- **Hazard statements:**

H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

H335 MAY CAUSE RESPIRATORY IRRITATION.

- **Precautionary statements:**

P260 Do not breathe dust, fume, gas, mist, vapors or spray.

P280 Wear protective gloves and eye or face protection.

P264 Wash thoroughly after handling.

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P271 Use only outdoors or in a well-ventilated area.
 P303+P361+P353 IF ON SKIN OR HAIR: Remove or take off immediately all contaminated clothing. Rinse skin with water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P310 Immediately call a POISON CENTER or a doctor.
 P363 Wash contaminated clothing before reuse.
 P405 Store locked up.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P501 Dispose of contents and container in accordance with local, regional and national regulations.

- **Classification system:**
- **NFPA ratings (scale 0 - 4):**



Health = 3
 Fire = 0
 Reactivity = 2

The substance demonstrates unusual reactivity with water.

- **Hazard not otherwise classified:** None
- **Notes:** For the wording of the listed abbreviations refer to section 16.

3 Composition/information on ingredients

- **Dangerous components:**

CAS	Component	(% w/w)
1310-73-2	Sodium Hydroxide Met. Corr.1, H290; Skin Corr. 1B, H314	25-50%
497-19-8	Sodium Carbonate Met. Corr.1, H290; Eye Irrit. 2, H319	25-<35%
7758-29-4	Pentasodium Triphosphate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-<25%

4 First-aid measures

- **General information:**

Immediately remove any clothing soiled by the product.
 Caustic products usually don't generate instantaneous painful burns in contact with eyes or skin. In case of direct contact with this product, react immediately by following the measures below.

- **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation. Get medical attention.

- **After skin contact:**

Remove immediately all contaminated clothing. Rinse skin with water or shower for at least 15 minutes. Consult a doctor if skin redness and irritation persist.

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- **After eye contact:**
Rinse opened eye for several minutes under running water. Remove contact lenses, if present and easy to do so. Continue rinsing for a minimum of 15 to 60 minutes. Then consult a doctor.
- **After ingestion:**
Drink copious amounts of water and provide fresh air. Immediately call a doctor. Do not induce vomiting.
- **Information for doctor:**
 - **Most important symptoms and effects, both acute and delayed:**
Contact can cause pain, redness, burns, and even blistering. Burns may not be immediately painful; onset of pain may be delayed minutes to hours. Permanent damage, including blindness, can result after prolonged contact with eyes.

5 Fire-fighting measures

- **Suitable extinguishing media:**
- **Suitable extinguishing media:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Specific hazards arising from the product:**
In case of accidental fire and extreme heat conditions, the following gaseous products can be released after water evaporation: hydrocarbons, carbon monoxides and dioxides (CO_x) and nitrogen oxides (NO_x).
- **Advice for firefighters:**
 - **Special protective equipment and precautions for fire-fighters:** No special measures required.
- **Additional information:**
This product is not flammable.
See -Section 9- for the flammability characteristics of this product.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear recommended protective equipment(s). Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers, surface or ground water.
- **Methods and material for containment and cleaning up:**
Use neutralizing agent (eg. food vinegar (5% acetic acid), citric acid, sodium bicarbonate in excess)
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

7 Handling and storage

- **Handling:**
 - **Precautions for safe handling:** Thorough dusting.
- **Conditions for safe storage, including any incompatibilities:**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Conditions for safe storage, including any incompatibilities:**
Keep in the original receptacle tightly sealed.

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Store in cool, dry conditions in well sealed receptacles.
Store under lock and key and out of the reach of children.
Do not store in aluminium or galvanised containers nor use die-cast zinc or aluminium bungs;
plastic bungs should be used.

- **Specific end use(s):** No further relevant information available.

8 Exposure controls/personal protection

- **Appropriate engineering controls:** Ensure appropriate aeration and ventilation.
- **Control parameters:**

· **Components with limit values that require monitoring at the workplace:**

1310-73-2 Sodium Hydroxide

EL (Canada) Ceiling limit value: 2 mg/m³

EV (Canada) Ceiling limit value: 2 mg/m³

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls:**
- **Personal protective equipment:**



Protective gloves



Safety goggles

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale dust, smoke, mist gases, fumes or aerosols.

Avoid contact with the eyes and skin.

Do not carry product impregnated cleaning cloths in trouser pockets.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Not necessary if room is well-ventilated.

- **Protection of hands:**

Protective gloves

Check protective gloves prior to each use for their proper condition.

The glove material has to be impermeable and resistant to the product.

- **Eye protection:** Safety goggles

- **Body protection:** Alkaline resistant protective clothing (recommended)

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9 Physical and chemical properties

· Information on basic physical and chemical properties:	
· General Information:	
· Appearance:	
· Form:	Powder
· Colour:	White
· Odour:	Odourless.
· Odor threshold:	Not determined.
· pH-value at 25 °C:	12.0 - 13.0
· Change in condition:	
· Melting point/Melting range:	Not applicable.
· Boiling point/Boiling range:	1390 °C
· Flash point:	Not determined.
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density (air=1):	Not applicable.
· Evaporation rate:	Not applicable.
· Solubility in / Miscibility with:	
· Water:	Fully miscible
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity:	
· Dynamic:	Not applicable.
· Solvent content:	
· Organic solvents:	0.0 %

10 Stability and reactivity

- **Reactivity:** The product is basic.
- **Chemical stability:**
 - **Thermal decomposition / conditions to be avoided:**
 No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** Reacts with water and acids.

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- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:**
 This product can react with strong oxidizing agents and strong acids.
 In humid conditions or in high concentration in water: reacts with most metals, produces hydrogen gas, a flammable and explosive gas. It is particularly corrosive to aluminium, tin, lead, and zinc.
- **Hazardous decomposition products:**
 Hydrogen
 In case of decomposition: carbon monoxide and carbon dioxide and traces of volatile halogenated compounds.

11 Toxicological information

- **Information on the likely routes of exposure:** Skin and eyes contact
- **Acute toxicity:**
 - **Numerical measures of toxicity:**

· Components		Type	Value (Species)
Mean of exposure			
ATE (Acute Toxicity Estimates)			
Oral	LD50		571 mg/kg (Rat)
Dermal	LD50		7702 mg/kg (Rabbit)
Inhalative	LC50 (4 h)		8857 mg/L (Rat)
1310-73-2 Sodium Hydroxide			
Oral	LD50		240 mg/kg (Rat)
497-19-8 Sodium Carbonate			
Oral	LD50		4090 mg/kg (Rat)
Dermal	LD50		>2000 mg/kg (Rabbit)
Inhalative	LC50 (4 h)		2300 mg/L (Rat)
7758-29-4 Pentasodium Triphosphate			
Oral	LD50		3900 mg/kg (Rat)

- **Symptoms related to the physical, chemical and toxicological characteristics:**
 - **By inhalation:** Not applicable
 - **If on the skin:** CORROSIVE: Strong caustic effect on skin and mucous membranes.
 - **If on the eye:**
 CORROSIVE: Strong caustic effect.
 Strong irritant with the danger of severe eye injury.
 - **After ingestion:** May cause irritation of the gastrointestinal tract, nausea, vomiting and headache.
 - **Sensitization:** No sensitizing effects known.
- **Delayed and immediate effects, and chronic effects from short-term and long-term exposure:**
 Prolonged or frequent contact can cause eczema and inflammation of the skins as a results of degreasing.
- **Additional toxicological information:**
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Harmful
 Corrosive

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Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer)**

1330-20-7 xylene

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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

1310-73-2 Sodium Hydroxide

EC50 (48 h) (Static) 40.4 mg/L (Ceriodaphnia Dubia)

EC50 (96 h) 196 mg/L (fish)

· **Behavior in environmental systems:**

· **Bioaccumulative potential:** No further relevant information available.

· **Mobility in soil:** No further relevant information available.

· **Ecotoxicity:** No relevant information available

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values.

A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

· **Waste treatment methods:**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system unless significantly diluted or neutralized.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water.

14 Transport information

· **DOT, IMDG, IATA**

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· UN proper shipping name · DOT	Corrosive solids, n.o.s. (Sodium hydroxide)
· Transport hazard class(es) · Class	8 Corrosive substances
· Packing group · DOT	II
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

· Chemicals known to cause cancer:	None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for females:	None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for males:	None of the ingredients is listed.
· Chemicals known to cause developmental toxicity:	None of the ingredients is listed.
· EPA (Environmental Protection Agency)	
1330-20-7 xylene	I
· TLV (Threshold Limit Value established by ACGIH)	
1330-20-7 xylene	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of creation/last revision:** 07/20/2015

· **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)

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LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

Met. Corr. 1: Corrosive to metals, Hazard Category 1

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

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