

1 • Identification

- . **Product name:** COSMO CHLORINATED MACHINE DISHWASHING COMPOUND
- . **Article number:** 1160962001
- . **Recommended use:** Dishwasher formulation
- . **Restrictions on use:** All other uses than those indicated on the product label and technical data sheet
- . **Manufacturer:**
Avmor LTD
950, Michelin
Laval, QC, H7L 5C1
Canada
1-800-387-8074
www.avmor.com
- . **Emergency telephone number:** CANUTEC 1-613-996-6666

2 • Hazard identification

- . **Classification of the product as sold:**
Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.
STOT SE 3 H335 May cause respiratory irritation.

- . **Label elements**
- . **Hazard pictograms:**



GHS05 GHS07

- . **Signal word:** Danger
- . **Hazard statements:**
Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation.
- . **Precautionary statements:**
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF ON SKIN: Wash with plenty of water.
Immediately call a POISON CENTER or a doctor.

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- Take off contaminated clothing and wash it before reuse.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Dispose of contents and container in accordance with local, regional and national regulations.

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

Health = 2
Fire = 0
Reactivity = 1

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

Product AT USE DILUTION: N/A

3 • Composition/Information on ingredients

- Chemical characterization: Mixtures**
- Description:** Detergent powder containing the following hazardous products:

Components:		
497-19-8	Sodium Carbonate	30-60%
6834-92-0	Disodium Metasilicate	10-30%
7758-29-4	Pentasodium Triphosphate	10-30%
2893-78-9	Sodium Dichloroisocyanurate	0.5-1.5%

- Additional information:** Any concentration shown as a range is to protect confidentiality or is due to batch variation.

4 • First aid measures

- Description of first aid measures**
- 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.
- 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:** If symptoms persist consult a doctor.
- Most important symptoms and effects, both acute and delayed:** No further relevant information available.

5 • Firefighting measures

- Suitable extinguishing media:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
- Specific hazards arising from the product:** No further relevant information available.
- Special protective equipment and precautions for fire-fighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
- Additional information:** This product is not flammable.

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6 • Accidental release measures

. Personal precautions, protective equipment and emergency procedures:

Wear recommended protective equipment(s). Keep unprotected persons away.

Protective gloves (See Protection of Hands)

Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from organic vapors.

. Environmental precautions: No special measures required.**. 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.

. Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 • Handling and storage

. Precautions for safe handling:

Thorough dedusting.

Prevent formation of dust.

. Information about protection against explosions and fires: No special measures required.**. 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.

Store under lock and key and out of the reach of children.

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

8 • Exposure controls/ Personal protection

. Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

. Undiluted Product**. Personal protective equipment:**

Safety goggles (see Eye protection)



Alkaline resistant gloves (recommended)

. General protective and hygienic measures:

Avoid contact with the eyes and skin.

The usual precautionary measures for handling chemicals should be followed.

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Wash hands before breaks and at the end of work.

. 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.

Use suitable respiratory protective device when high concentrations are present.

If room is well-ventilated, a respirator is not needed under normal and intended conditions of product use.

. Protection of hands:

Protective Gloves

Check protective gloves prior to each use for their proper condition

. Eye protection:

Safety glasses are suggested when using this product in heavy use and institutional environments

Wear splash-proof chemical goggles in an industrial environment.

. Body protection:

Protective clothing is recommended only under exceptional circumstances such as fire or spill of concentrated product

Alkaline resistant protective clothing (recommended)

9 • Physical and chemical properties

- | | |
|--|---|
| . Form: | Powder |
| . Colour: | White |
| . Odour: | Chlorine-like |
| . Odor threshold: | Not determined |
| . pH-Value: | 11.7-12.5 |
| . Melting point/Melting range: | Not applicable. |
| . Boiling point/Boiling range: | Undetermined. |
| . Fusion temperature / range: | Not determined |
| . 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 determined. |
| . Relative density: | Not determined. |
| . Vapour density (air=1): | Not applicable. |
| . Evaporation rate: | Not applicable. |
| . Solubility in / Miscibility with | |
| Water: | Not miscible or difficult to mix. |
| . Partition coefficient (n-octanol/water): Not determined | |

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10 • Stability and reactivity

- . **Reactivity:** Not determined.
- . **Chemical stability:** The product is stable.
- . **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- . **Possibility of hazardous reactions:** Reacts with acids.
- . **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**
- . **Numerical measures of acute toxicity:**

Components	Type	Value (Species)
Mean of exposure		
ATE (Acute Toxicity Estimates)		
Oral	LD50	3075 mg/kg (Rat)
Dermal	LD50	4347 mg/kg (Rabbit)
Inhalative	LC50 (4 h)	4999 mg/L (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)
6834-92-0 Disodium Metasilicate		
Oral	LD50	1280 mg/kg (Rat)
Irritation of skin	OECD guideline 404	cat. 1B (Rabbit)
Sensitization	OECD guideline 429	Not classified. (guinea pig)
7758-29-4 Pentasodium Triphosphate		
Oral	LD50	3900 mg/kg (Rat)
2893-78-9 Sodium Dichloroisocyanurate		
Oral	LD50	1420 mg/kg (Rat)

- . **Symptomes related to the physical, chemical and toxicological characteristics**
- . **By inhalation:** Not applicable
- . **If on the skin:** Caustic effect on skin and mucous membranes.
- . **If on the eye:** CORROSIVE: Strong caustic effect.
- . **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.

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. Carcinogenic categories:**. IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

. NTP (National Toxicology Program)

None of the ingredients is listed.

12 • Ecological information**. Persistence and degradability:**

The surfactants and organic compounds contained in this product are readily biodegradable according to the OECD 301 guideline.

. Bioaccumulative potential: Does not accumulate in organisms.

. Mobility in soil: Not determined

. Ecotoxicity: No relevant information available.

. Other adverse effects No further relevant information available.

13 • Disposal considerations**. Waste treatment methods recommendation:**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with local authority requirements.

Dispose in accordance with all applicable federal, state, provincial and local laws and regulations. Contact your local, state, provincial or Federal environmental agency for specific rules.

. Uncleaned packagings recommendation:

Do not re-use empty containers.

Dispose of packaging according to regulations on the disposal of packagings.

. Recommended cleansing agent:

Water

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14 • Transport information**. UN-Number**

. DOT, IATA UN3253

. UN proper shipping name

. DOT/TDG Disodium trioxosilicate

. IATA DISODIUM TRIOXOSILICATE

. Transport hazard class(es)**. DOT, IATA**

. Class 8 Corrosive substances

. Label 8

. Packing group

. DOT, IATA III

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15 • Regulatory information

- . Safety, health and environmental regulations/legislation specific for the substance or mixture
- . Canadian substance listings

. Canadian Domestic Substances List (DSL)	
All ingredients are listed.	

. Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	

. Canadian Ingredient Disclosure list (limit 1%)	
497-19-8	Sodium Carbonate
6834-92-0	Disodium Metasilicate
2893-78-9	Sodium Dichloroisocyanurate

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. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

. Department issuing SDS:

Prepared by :

Regulatory Affairs Department

. Date of creation/last revision: 07/09/2015**. Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

P: Marine Pollutant

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent