



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name ENCUE'VMQ
Product use Powdered Laundry Detergent
Product code R49:
Date of issue 23/24/18 **Supersedes** 29/4: /16

Emergency Telephone Numbers

For MSDS Information:

Technical Services Group
Telephone (780) 453-8100
(Business Hours 8:00am - 5:00pm)

For Medical or Transportation Emergency

CANUTEC (24 Hours)
(613) 996-6666 - Call Collect

Prepared By

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Section 2. Hazards Identification

Emergency overview

CAUTION!

May be harmful if swallowed. Avoid contact with eyes, skin and clothing. Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure. Wash thoroughly after handling.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Eye contact. Skin contact. Inhalation.

Eyes

Irritating to eyes. Inflammation of the eye is characterized by redness, watering and itching. Eye exposure may cause severe and permanent eye injury (blindness).

Skin

Irritating to skin. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation

Over-exposure by inhalation may cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion

Harmful if swallowed.

Chronic effects

Contains material which causes damage to the following organs: kidneys.
Repeated inhalation of dust can produce varying degrees of respiratory irritation or lung damage.
Prolonged contact with eye tissue may cause severe and permanent eye injury (blindness).

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

<u>Name of Hazardous Ingredients</u>	<u>CAS number</u>	<u>% by Weight</u>
SODIUM METASILICATE; silicic acid (H ₂ -Si-O ₃) disodium salt; water glass	6834-92-0	10 - 30
SODIUM CARBONATE; soda ash; carbonic acid, disodium salt	497-19-8	10 - 30
SODIUM NITRILOTRIACETATE; nta; nitrilotriacetic acid trisodium salt monohydrate	18662-53-8	10 - 30
disodium tetraborate decahydrate	1303-96-4	3 - 7

Section 4. First Aid Measures

Eye Contact

Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Inhalation

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point Not applicable.

Flammable Limits Not applicable.

Flammability Non-combustible.

Auto-ignition Temperature

Fire-Fighting Procedures Use an extinguishing agent suitable for the surrounding fire.

Fire hazard May emit toxic fumes under fire conditions. sulfur oxides (SO₂, SO₃ etc.)

Products of Combustion Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

Explosion hazard Not available.

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see section 8). Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Wash thoroughly after handling.

Storage Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). 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. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name

sodium carbonate

disodium tetraborate decahydrate

Exposure limits

ACGIH (United States).

: 15 mg/m³ Form: Dust

CA British Columbia Provincial (Canada, 9/2010).

TWA: 2 mg/m³ 8 hour(s). Form: InhalableSTEL: 6 mg/m³ 15 minute(s). Form: Inhalable

CA Ontario Provincial (Canada, 7/2010).

TWA: 2 mg/m³ 8 hour(s). Form: Inhalable fractionSTEL: 6 mg/m³ 15 minute(s). Form: Inhalable fraction

CA Alberta Provincial (Canada, 4/2009). Skin sensitizer.

8 hrs OEL: 1 mg/m³ 8 hour(s).

15 min OEL: 3 ppm 15 minute(s).

CA Quebec Provincial (Canada, 6/2008).

TWA EV: 5 mg/m³ 8 hour(s).

Personal Protective Equipment (PPE)

Eyes Safety glasses.

Hands and Body Neoprene gloves. Nitrile gloves. Rubber gloves.

Respiratory Use with adequate ventilation. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation.



Section 9. Physical and Chemical Properties

Physical State	Powder.	Color	White.
pH	11.2-11.8 (1% solution)	Odor	Odorless.
Boiling Point	Not applicable.	Vapor Pressure	Not applicable.
Specific Gravity	Not applicable.	Vapor Density	Not applicable.
Solubility	Easily soluble in the following materials: cold water and hot water.	Evaporation Rate	Not applicable.
Freezing Point		VOC (Consumer)	Not applicable.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive or incompatible with the following materials: oxidizing materials and acids.
Hazardous Polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Carcinogenicity Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure. NTA (nitrilotriacetic acid) and salts thereof, Classified: 2B, possible carcinogen to human by IARC. Classified: Reasonably anticipated carcinogen by NTP.

Acute Toxicity

disodium metasilicate	LD50 Oral	Mouse	770 mg/kg
	LD50 Oral	Rat	1153 mg/kg
	LD50 Oral	Rat	1153 mg/kg
sodium carbonate	LD50 Oral	Rat	2800 mg/kg
Acetic acid, nitrilotri-, trisodium salt, monohydrate	LD50 Oral	Rat	1450 mg/kg
disodium tetraborate decahydrate	LD50 Oral	Rat	2660 mg/kg

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
disodium metasilicate	-	Acute EC50 33.53 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
sodium carbonate	-	Acute EC50 242000 ug/ L Fresh water	Algae - Diatom - Navicula seminulum	96 hours
	-	Acute LC50 176000 ug/ L Fresh water	Crustaceans - Scud Order - Amphipoda	48 hours
	-	Acute LC50 265 mg/L	Daphnia	96 hours
	-	Acute LC50 265000 ug/ L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 300 mg/L	Fish - Bluegill.	96 hours

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.

Waste Stream**Section 14. Transport Information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	Not regulated.	-	-	-		-
IMDG Class	Not available.	Not available.	Not available.	-		-

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG* : Packing group

Section 15. Regulatory Information**Canada****WHMIS (Canada)**

Class D-2B: Material causing other toxic effects (Toxic).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16. Other Information

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.