



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name INSTITUTIONAL LAUNDRY
Product use Laundry Detergent.
Product code 2387
Date of issue 06/28/11 **Supersedes** 08/12/08

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

Technical Services Group
 11627 178th Street
 Edmonton, Alberta T5S 1N6

Printing date: 28/06/11

Section 2. Hazards Identification

Emergency overview

CAUTION!

MAY BE HARMFUL IF SWALLOWED.

May be harmful if swallowed. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Do not ingest. Avoid breathing dust. Avoid contact with eyes, skin and clothing. 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 Dermal contact. Inhalation.

Eyes

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. Eye contact can result in corneal damage or blindness. Corrosive to eyes.

Skin

Skin contact may produce burns. The amount of tissue damage depends on length of contact. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

Ingestion

Harmful if swallowed. May cause burns to mouth, throat and stomach.

Chronic effects

Prolonged contact with eye tissue may cause severe and permanent eye injury (blindness).
 Repeated inhalation of dust can produce varying degrees of respiratory irritation or lung damage.
 Repeated skin exposure can produce local skin destruction or dermatitis.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
SODIUM CARBONATE; soda ash; carbonic acid, disodium salt	497-19-8	40 - 70
SODIUM METASILICATE; silicic acid (H2-Si-O3) disodium salt; water glass	6834-92-0	10 - 30

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 immediately.

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 available.

Flammable Limits Not available.

Flammability Not considered to be flammable according to our database.

Auto-ignition Temperature

Fire-Fighting Procedures Use an extinguishing agent suitable for the surrounding fire. Fire-fighters should wear appropriate protective equipment.

Fire hazard No specific fire or explosion hazard.

Products of Combustion Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides, toxic/corrosive fumes as oxides of phosphorous

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 ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. 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. Do not store in unlabeled containers. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name

SODIUM CARBONATE

Sodium Metasilicate

Exposure limits

ACGIH (United States).

: 15 mg/m³ Form: Dust

OSHA PEL (United States).

TWA: 15 mg/m³ 8 hour(s). Form: Total dust

ACGIH TLV (United States).

TWA: 10 mg/m³ 8 hour(s). Form: Dust

OSHA PEL (United States).

: 15 mg/m³ Form: Dust

Personal Protective Equipment (PPE)

Eyes Safety glasses. If operating conditions cause high dust concentrations to be produced, use dust goggles.



Hands and Body Wear appropriate protective clothing to prevent skin contact. Rubber gloves. Nitrile gloves. Neoprene gloves.

Respiratory Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist.

Section 9. Physical and Chemical Properties

Physical State Solid. [Powder.]

Color Off-white.

pH 11.5 - 12.0 (1% solution)

Odor Mild.

Boiling Point Not available.

Vapor Pressure Not available.

Specific Gravity Not available.

Vapor Density Not available.

Solubility Partially soluble in the following materials: cold water.

Evaporation Rate Not available.

Freezing Point

VOC (Consumer) 0 % (w/w)

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 No known significant effects or critical hazards.

Acute Toxicity

SODIUM CARBONATE	LD50 Oral	Rat	2800 mg/kg	-
Sodium Metasilicate	LD50 Oral	Rat	2200 mg/kg	-
Alkyl(C9-11) alcohol, ethoxylated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1378 mg/kg	-
	LD50 Oral	Rat	1400 mg/kg	-

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
SODIUM CARBONATE	-	Acute EC50 199.82 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	-	Acute LC50 300 mg/L	Fish - Bluegill.	96 hours
	-	Acute LC50 265 mg/L	Daphnia	96 hours
	-	Acute LC50 1640000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute LC50 1020000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - <24 hours	48 hours
	-	Acute LC50 <850000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 1 to 7 days	96 hours
	-	Acute LC50 740000 ug/L Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours
	-	Acute LC50 565000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 320000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 5.3 to 7.2 cm - 3.5 to 3.9 g	96 hours
	-	Acute LC50 265000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 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 E: Corrosive material

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.*