

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name ZEP FORMULA 15282

Product use Recirculating Detergent

Product code 5348

Date of issue 05/28/14 Supersedes 06/21/11

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

Section 2. Hazards Identification

Emergency overview CAUTION!

MAY BE HARMFUL IF SWALLOWED.

Do not ingest. 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 Dermal contact. Eye contact. Inhalation.

Eyes Corrosive to eyes. Eye contact can result in corneal damage or blindness. The amount of tissue

damage depends on length of contact.

Skin Corrosive to the skin. Skin contact can produce inflammation and blistering. Skin contact may

produce burns.

Inhalation 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 be fatal if swallowed. May cause burns to mouth, throat and stomach.

Chronic effects Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin

exposure can produce local skin destruction or dermatitis. Repeated inhalation of dust can

produce varying degrees of respiratory irritation or lung damage.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
SODIUM CARBONATE; soda ash; carbonic acid; disodium salt	497-19-8	15 - 40
SODIUM METASILICATE; silicic acid (H2-Si-O3) disodium salt; water glass	6834-92-0	10 - 30
TETRASODIUM PYROPHOSPHATE; TSPP; pyrophosphoric acid, tetrasodium salt	7320-34-5	10 - 30

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and

remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Skin Contact Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation Move exposed person to fresh air. Flush mouth and nasal passages with water repeatedly. If not breathing, if

breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Product code 5348 Material Safety Data Sheet Product Name ZEP FORMULA 15282

Ingestion

If affected person is conscious, give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.

Section 5. Fire Fighting Measures

Flammable Limits Not available.
Flammability Not available.
Auto-ignition Temperature

Fire-Fighting ProceduresUse 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:

phosphorus oxides (P₂O₅, P₂O₃, etc)

metal oxide/oxides carbon oxides (CO, CO₂)

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. Finish cleaning by spreading water on the

contaminated surface and dispose of according to local and regional authority requirements.

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. 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. Do not store in unlabeled containers. Keep

out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name Exposure limits

No exposure limit value known.

Personal Protective Equipment (PPE)

Eyes Recommended: Splash goggles.

Hands and Recommended: Chemical-resistant gloves. Neoprene Nitrile

cold water and hot water.1.5 lb./gal

Body Rubber

Respiratory Recommended: Use with adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate. Approved/certified respirator with appropriate

particulate dust filters.

Section 9. Physical and Chemical Properties

Physical State Moist solid. Color Tan.

pH 11.8-12.3 (1% solution)
 Dodor Slight Aromatic.
 Boiling Point Not applicable
 Vapor Pressure Not applicable

Specific Gravity Not applicable

Solubility

Not applicable in the following materials:

Vapor Density Not applicable

Evaporation Rate Not applicable.

Freezing Point VOC (Consumer) 0 (g/l).

Page: 2/4

Product code 5348 Material Safety Data Sheet Product Name ZEP FORMULA 15282

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 Will not occur.

produced.

Section 11. Toxicological Information

Carcinogenicity

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
sodium carbonate	LD50 Oral	Rat	4090 mg/kg	-
disodium metasilicate	LD50 Oral	Mouse	770 mg/kg	-
	LD50 Oral	Rat	1153 mg/kg	-
	LD50 Oral	Rat	1153 mg/kg	-
tetrapotassium pyrophosphate	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Mouse	2980 mg/kg	-
	LD50 Oral	Rat	4000 mg/kg	-

Mutagenicity

Conclusion/Summary

Teratogenicity

Conclusion/Summary

: Not available.

: Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Section 12. Ecological Information

Environmental Effects

No known significant effects or critical hazards.

Aquatic Ecotoxicity

Product/ingredient name	Test	Result S	pecies	Exposure
sodium carbonate	-	Acute EC50 242000 μg/	Algae - Diatom -	96 hours
		l Fresh water	Navicula seminulum	
	-	Acute LC50 176000 μg/	Crustaceans - Scud	48 hours
	_	l Fresh water Acute LC50 265000 µg/	Order - Amphipoda Daphnia - Water flea -	- 48 hours
		1 Fresh water	Daphnia magna	40 hours
	-	Acute LC50 300000 μg/	Fish - Bluegill -	96 hours
		1 Fresh water	Lepomis macrochirus	
disodium metasilicate	-	Acute EC50 33.53 mg/l	Crustaceans - Water f	
		Fresh water	- Ceriodaphnia dubia	-
		4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Neonate	061
	-	Acute LC50 2320 ppm Fresh water	Fish - Western	96 hours
		Fresh water	mosquitofish - Gambusia affinis - Ad	hilt
	OECD	Chronic NOEC 160 mg/	Algae - Green algae -	72 hours
		l Fresh water	Pseudokirchneriella	
			subcapitata	

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 Code: - [Not applicable.]

Classification: - [Non-hazardous waste]

Origin: - [RCRA waste.]

Product code 5348	Material Safety Data Sheet	Product Name ZEP FORMULA 15282	
-------------------	----------------------------	--------------------------------	--

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.