



11627 178th Street
Edmonton, Alberta T5S 1N6
1-877-I-BUY-ZEP (428-9937)
www.zep.com

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name FLASH
Product use Concrete Cleaner
Product code 0723
Date of issue 08/22/11 **Supersedes** 09/09/08

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: 22/08/11

Section 2. Hazards Identification

Emergency overview

WARNING !

Do not get in eyes or on skin or clothing. Contains material that may cause target organ damage, based on animal data. 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. Direct contact with the eyes can cause irreversible damage, including blindness.

Skin

Skin contact may produce burns. Skin contact can produce inflammation and blistering. The amount of tissue damage depends on length of contact.

Inhalation

Harmful by 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. Medical conditions aggravated by over-exposure: Respiratory.

Ingestion

Do not ingest.

Chronic effects

Contains material which may cause damage to the following organs: upper respiratory tract, eyes. Repeated inhalation of dust can produce varying degrees of respiratory irritation or lung damage. 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.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
SODIUM METASILICATE; silicic acid (H2-Si-O3) disodium salt; water glass	6834-92-0	60 - 100
SODIUM CARBONATE; soda ash; carbonic acid, disodium salt	497-19-8	7 - 13

Section 4. First Aid Measures

Eye Contact

Get medical attention immediately. 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.

Skin Contact

Get medical attention immediately. Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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. Get medical attention immediately.

Ingestion

If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. 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	Non-combustible.
Auto-ignition Temperature	
Fire-Fighting Procedures	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. In case of fire, use water spray (fog), foam, dry chemical or CO ₂ .
Fire hazard	No specific fire or explosion hazard.
Products of Combustion	carbon oxides (CO, CO ₂)
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. Product forms slippery surface when combined with water. Do not reuse container.
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. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

<u>Product name</u>	<u>Exposure limits</u>
Sodium Metasilicate	ACGIH TLV (United States). TWA: 10 mg/m ³ 8 hour(s). Form: Dust OSHA PEL (United States). : 15 mg/m ³ Form: Dust
Sodium Carbonate	ACGIH (United States). : 15 mg/m ³ Form: Dust OSHA PEL (United States). TWA: 15 mg/m ³ 8 hour(s). Form: Total dust

Personal Protective Equipment (PPE)

Eyes	Recommended: Safety glasses. splash goggles
Hands and Body	Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves. Synthetic apron. Boots, Chemical resistant.
Respiratory	Use with adequate ventilation. If dust is generated and ventilation is inadequate, use NIOSH certified respirator that will protect against dust/mist.



Section 9. Physical and Chemical Properties

Physical State	Powder.	Color Orange.
pH	12.0-12.5 (1% solution)	Odor Pine.
Boiling Point	Not applicable.	Vapor Pressure Not applicable.
Specific Gravity	Not applicable.	Vapor Density Not applicable.
Solubility	Soluble in cold water and hot water. 1 lb/gal	Evaporation Rate Not applicable.
Freezing Point		VOC (Consumer) Not available.

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.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Carcinogenicity Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sodium Metasilicate	LD50 Oral	Rat	2200 mg/kg	-
Sodium Carbonate	LD50 Oral	Rat	2800 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 LC50 300 mg/L	Fish - Bluegill.	96 hours
	-	Acute LC50 265 mg/L	Daphnia	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 Code: - (Not applicable.)

Classification: - (Non-hazardous waste)

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).

Class E: Corrosive solid.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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.