

OM0166

## HILLSBORO ELEMENTARY SCHOOLS

MATERIAL SAFETY DATA SHEET

OT 0049

715 S.E. 6th Ave.  
HILLSBORO, OR 97123

## \*\*\* IDENTIFICATION \*\*\*

RECORD NUMBER 128441  
LANGUAGE ENGLISH  
TRADE NAME(S) LIME  
PRODUCT IDENTIFICATION DATA LIM-010  
DATE OF MSDS 1988-10-19

## \*\*\* MANUFACTURER INFORMATION \*\*\*

MANUFACTURER Stelco Steel  
ADDRESS Post Office Box 2030  
King Street West  
Hamilton Ontario  
Canada L8N 3T1  
Telephone: 416-528-2511  
EMERGENCY TELEPHONE NO.(S) 416-528-2511 ext 2808 ext 2268

## \*\*\* MATERIAL SAFETY DATA \*\*\*

## MATERIAL SAFETY DATA SHEET - Stelco Steel

LIME  
PROCESS CHEMLIM-010  
EXPIRY DATE: 1991/10/19

## HAZARD RATING

FIRE HAZARD	0 - NIL	HEALTH	2
HEALTH HAZARD	2 - MODERATE	FIRE	0
CONTACT HAZARD	2 - MODERATE	CONTACT	2

## 1 - HAZARD ALERT PHRASES

Fire Hazard: Noncombustible  
Health Hazard: Warning! Dust is strong irritant.  
Contact Hazard: Warning! May cause burns to eyes and skin.

## 2 - FIRST AID - EMERGENCY

## FIRE

Non combustible

## EYE CONTACT

Flush eyes for at least 15 minutes, with plenty of water while holding eyelids open. Obtain medical attention.

## SKIN CONTACT

Wash affected area with water. If irritation or chemical burns result obtain medical attention.

## INHALATION

Remove to fresh air. Provide artificial respiration. Obtain medical attention.

## SWALLOWED

Do not induce vomiting, keep patient quiet. Obtain medical attention.

## SPILL OR LEAK

Restrict access to area. Wear proper protective equipment. Remove combustible material from area. Do not allow material to enter sewers. Shovel or vacuum spilled material into proper containers.

Contact plant personnel responsible for environmental matters for disposal instructions (e.g. Utilities, Envir. Control, as appropriate)

Waste disposal per applicable Federal, Provincial or Local Regulation.

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### 3 - FIRE AND EXPLOSION DATA

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Flammability: No  
Means of Extinction: Not applicable  
Flashpoint (degrees C) & Method: Not applicable  
Hazardous Combustion Products: Not applicable  
Lower Explosion Limit (% by volume): Not applicable  
Upper Explosion Limit (% by volume): Not applicable  
Special Procedures: Not applicable.  
Auto-Ignition Temperatures (degrees C): Not applicable.  
Explosion Data-Sensitivity to Impact: No.  
Sensitivity to Static Discharge: No.  
Sensitivity to Impact: No.

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### 4 - REACTIVITY DATA

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Chemical Stability: Yes.  
Incompatibility to Other Substances: Yes, strong acids/water/fluorine.  
Reactivity: May react violently with water or strong acids to generate sufficient heat to ignite combustible materials.  
Hazardous Decomposition Products: None.

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### 5 - TOXICITY AND HEALTH EFFECTS

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#### HEALTH EFFECTS DATA

##### Routes of Entry

Skin Contact (Y/N): Yes  
Skin Absorption (Y/N): No  
Eye Contact (Y/N): Yes  
Inhalation Acute (Y/N): Yes  
Inhalation Chronic (Y/N): No  
Ingestion (Y/N): Yes

Effects of Acute Exposure: Irritation to nose, throat and respiratory system.  
Effects of Chronic Exposure: No known effect.

#### CONTACT HAZARD DATA

Contact Hazard: May cause burns to eyes and skin.  
Irritancy of Product: Corrosive.

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### 6 - PREVENTIVE MEASURES

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#### ENGINEERING CONTROLS

Engineering Controls: General or local exhaust to maintain airborne lime dust levels below exposure limit.

#### PERSONAL PROTECTION

Gloves: As application dictates.  
Respiratory: Approved NIOSH dust/mist respirator.  
Eyes: Safety glasses, additional protection as application dictates.  
Footwear: Safety shoes.  
Clothing: Long pants and shirts are recommended.  
Other: Eyewash station in area where lime is handled.

#### HANDLING PRECAUTIONS

Handling Procedures & Equipment: Ensure employees are fully trained in all aspects of material and personal protective equipment. If adding lime to water, add small amounts in order to avoid spattering or



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boiling.  
Storage Requirements: Store in cool, dry place, separate from readily ignitable substances.

## T D G (TRANSPORTATION DATA)

SHIPPING NAME : NOT REGULATED  
PIN (PRODUCT ID#) :  
PACKING GROUP :  
CLASS : NR  
SPECIAL PROVISIONS:  
SUBSIDIARY CLASS :  
SCHEDULE XII :

## 7 - HAZARDOUS INGREDIENTS

INGREDIENTS	PERCENT	CAS #	LIMITS ACGIH 87/88
Calcium Oxide	92-95	1305-78-8	2 mg/m3
Magnesium Oxide	0.1-1	1309-48-4	10 mg/m3

## 8 - PHYSICAL DATA

Physical State (Gas, Liquid or Solid): Solid.  
Odour & Appearance: White, odourless material.  
Odour Threshold (P.P.M.): Not applicable.  
Specific Gravity: 3.25 - 3.38 (@ 20 degrees C).  
Vapour Density (air=1): Not applicable.  
Vapour Pressure (mm): Not applicable.  
Evaporation Rate: Not applicable.  
Boiling Point (degrees C): 2850 C.  
Melting/Freezing Point (degrees C): 2570 C.  
Solubility In Water (20 degrees C): 12 g/100g.  
Coefficient of Water/Oil Distribution: Not applicable  
pH: 12.5 (saturated solution).  
% Volatile (by volume): Not applicable.

## 9 - PRODUCT IDENTIFICATION

Trade Name: High Calcium Quicklime.  
Synonyms: Burnt lime, quicklime, unslaked lime, calx.  
Chemical Name: Calcium Oxide.  
Chemical Identity: CaO  
Chemical Family: Alkaline earth.  
Product Use: Process chemical.

## 10 - MSDS PREPARATION DATA

Prepared By: G.R. Bucholz  
Department: Industrial Hygiene  
Preparation Date: October 19, 1988  
Phone #: 528-2511 Ext. 2808

ISN: 128441