



MATERIAL SAFETY DATA SHEET

Controller

SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: Controller
GENERAL/GENERIC NAME:
PRODUCT USE: pH Adjuster
EFFECTIVE DATE: August 21, 2014
VENDOR NAME AND ADDRESS: Alpine Specialty Chemicals Ltd.
9 City View Drive, Etobicoke, Ontario M9W 5A5
24 HOUR EMERGENCY NO. 613-996-6666

SECTION 2 – COMPOSITION / INFORMATION INGREDIENTS

INGREDIENT	%W/W	CAS.NO	TLV	LD50 / LC50
Potassium Hydroxide	1 - 5	1310-58-3	2mg/m ³	365 mg/kg
Sodium Hydroxide	20 - 30	1310-73-2	2mg/m ³	365 mg/kg

SECTION 3 – HAZARDS IDENTIFICATION

Route of Entry:

Skin Contact: Causes severe burns.

Eye Contact: Causes severe burns.

Inhalation: Mist causes irritation of the respiratory tract.

Ingestion: Causes burns to digestive tract.

Effects of Acute Exposure: (see section 11 for Toxicological information).

SECTION 4 – FIRST AID

Eyes: Flush with running water for at least 15 minutes while holding eyelids open. Get medical attention.

Skin Contact: Flush contaminated skin with plenty of soap and water. Remove contaminated clothing. Launder contaminated clothing thoroughly before re-use. Seek medical attention if skin is burned or symptoms continue.

Inhalation: Remove victim to fresh air. Aid in breathing if necessary. If breathing stops, administer artificial respiration. Seek medical attention. Effects may be delayed for a few hours and aggravated by physical exertion.

Ingestion: Give plenty of water to drink to dilute stomach contents. **Do not induce vomiting.** Seek immediate medical attention.

Note to Physician: Risk of permanent corneal injury and possible blindness if splashed into eyes.

SECTION 5 – FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Auto Ignition Temperature: None

EXTINGUISHING MEDIA: None required

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak/Spill: Contain spills; absorb onto inert material.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures: Avoid all skin contact. Ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid contact with eyes, skin or clothing. Keep container closed when not in use.

Storage Procedures: Keep from freezing. Keep containers closed when not in use.

MATERIAL SAFETY DATA SHEET

Controller

SECTION 8 – EXPOSURE CONTROLS

Engineering Controls: Emergency shower should be in close proximity. Eye wash facility should be close in proximity.

RESPIRATORY PROTECTION:

VENTILATION: General ventilation adequate.

PROTECTIVE GLOVES: Gloves, impervious.

EYE PROTECTION: Safety glasses.

OTHER PROTECTIVE MEASURES: Apron and boots recommended under exceptional circumstances such as spill or for prolonged contact with bulk quantities.

SECTION 9 – PHYSICAL PROPERTIES

PHYSICAL STATE: Liquid
APPEARANCE AND ODOUR: Clear colorless liquid
ODOUR THRESHOLD: ND
SPECIFIC GRAVITY: 1.362
VAPOUR PRESSURE: ND
VAPOUR DENSITY: ND
PH: (1%) 14
EVAPORATION RATE: ND
INITIAL BOILING POINT: 100°C approximately
WATER SOLUBILITY: Complete
FREEZING POINT: 0°C approximately

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Product is stable
DECOMPOSITION PRODUCTS: See fire degradation products.
REACTIVITY: Hydrogen evolution when exposed to aluminum.

SECTION 11 – TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY: Ingestion. Skin contact. Eye contact. Inhalation.
TOXICITY FOR ANIMALS: Not Available
ACUTE EFFECTS: Hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant), of ingestion, of inhalation,
CHRONIC EFFECTS: Prolonged exposure causes severe skin and eye burns.
CARCINOGENIC EFFECTS: Not Available
MUTAGENIC EFFECTS: Not Available
TERATOGENIC EFFECTS: Not Available
DEVELOPMENTAL TOXICITY: Not Available
Repeated or prolonged exposure to the substance can produce target organ damage.

SECTION 12 – ECOLOGICAL CONSIDERATION

No permanent effects on ecosystems.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: In accordance with federal, provincial or local government requirements.

SECTION 14 – TRANSPORT INFORMATION

MATERIAL SAFETY DATA SHEET

Controller

Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium Hydroxide), Class 8 UN 3266 PG III

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: D2B,E

SECTION 16 – OTHER INFORMATION

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