

MATERIAL SAFETY DATA SHEET

COMMANDO



SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: Commando
GENERAL/GENERIC NAME:
PRODUCT USE: Low temperature detergent
EFFECTIVE DATE: October 6, 2011
VENDOR NAME AND ADDRESS: Alpine Specialty Chemicals Ltd.
24 Ronson Drive, Unit 16
Etobicoke, Ontario M9W 1B4
613-996-6666
24 HOUR EMERGENCY NO.

SECTION 2 – COMPOSITION / INFORMATION INGREDIENTS

INGREDIENT	%W/W	CAS.NO	TLV	LD50 / LC50
Potassium Hydroxide	10-15	1310-58-3	2mg/m3	LD50 365 mg/kg (oral/rat)

SECTION 3 – HAZARDS IDENTIFICATION

Route of Entry:

Skin Contact: Causes irritation.

Eye Contact: Causes transient irritation.

Inhalation: Mist may cause irritation of the respiratory tract.

Ingestion: May cause irritation 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 corneal injury and possible blindness if splashed into eyes.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: ND
FLAMMABLE LIMITS: ND
AUTO-IGNITION TEMP: ND
EXTINGUISHING MEDIA: As per surrounding fire.
SPECIAL FIREFIGHTING PROCEDURES: Wear self - contained breathing apparatus and special protective clothing.
EXPLOSION DATA: ND
HAZARDOUS COMBUSTION PRODUCTS: Chlorine gas, oxides of phosphorous

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak/Spill: Contain spill; 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. Do not store with incompatible materials.

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SECTION 8 – EXPOSURE CONTROLS

PROTECTIVE EQUIPMENT TO BE USED:

RESPIRATORY PROTECTION: Not required under adequate ventilation.
VENTILATION: General ventilation adequate.
PROTECTIVE GLOVES: Rubber
EYE PROTECTION: Safety goggles
OTHER PROTECTIVE MEASURES: ND

SECTION 9 – PHYSICAL PROPERTIES

PHYSICAL STATE: Liquid
APPEARANCE AND ODOUR: Clear, red liquid
ODOUR THRESHOLD: ND
SPECIFIC GRAVITY: 1.25
VAPOUR PRESSURE: ND
VAPOUR DENSITY: ND
PH: (1%) 12
EVAPORATION RATE: ND
INITIAL BOILING POINT: 100°C approximately
WATER SOLUBILITY: Complete
FREEZING POINT: 0°C approximately

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable
INCOMPATIBILITY: Strong acids and some metals
HAZARDOUS DECOMPOSITION PRODUCTS: Strong acids and soft metals
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: Contact with acids will generate heat and toxic chlorine gas. Contact with soft metals will generate flammable hydrogen gas.

SECTION 11 – TOXICOLOGICAL INFORMATION

THRESHOLD LIMIT VALUE: ND
EFFECTS OF ACCUTE EXPOSURE
SKIN CONTACT: Corrosive. Causes irritation.
EYE CONTACT: Corrosive. Causes permanent damage if not treated promptly.
INHALATION: Corrosive. Breathing mist or spray may cause severe irritation.
INGESTION: Corrosive. May cause irritation to digestive tract.
EFFECT OF CHRONIC EXPOSURE: Repeated or prolonged exposure may cause drying and cracking of skin.
IRRITANCY OF PRODUCT: Moderate
CARCINOGENICITY: ND
SENSITIZATION TO MATERIAL: ND
REPRODUCTION TOXICITY: ND
TERATOGENICITY: ND
MUTAGENICITY: ND

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

TDG Classification: Corrosive Liquid, Basic, Inorganic, N.O.S. (Potassium Hydroxide)
Class 8 UN 3266 PG III

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SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: D2B, E

SECTION 16 – OTHER INFORMATION

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