

SAFETY DATA SHEET

COMMANDO

SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: COMMANDO
 PRODUCT USE: Mechanical Warewash Detergent
 VENDOR NAME AND ADDRESS: Alpine Specialty Chemicals Ltd.
 9 City View Drive, Etobicoke, Ontario M9W 5A5
 24 HOUR EMERGENCY NO. 613-996-6666 (CANUTEC)

SECTION 2 – HAZARDS IDENTIFICATION

CLASSIFICATION

- SKIN CORROSION/IRRITATION- CATEGORY 1A; EYE DAMAGE/IRRITATION –CATEGORY 1

LABEL ELEMENTS



- SIGNAL WORD: DANGER
- HAZARD STATEMENT(S): CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
- PRECAUTIONARY STATEMENTS: Wash skin thoroughly after handling. Wear chemical safety glasses and nitrile gloves. Do not mix with acids. Dispose of contents/ containers in accordance with local regulations.
- RESPONSE: - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN: Wash with plenty of water. Get medical attention. Take off contaminated clothes and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Immediately call a poison center or doctor. Rinse mouth.

SECTION 3 – COMPOSITION / INFORMATION INGREDIENTS

| CHEMICAL NAME | % | CAS.NO |
|-------------------------------------|-------|-----------|
| Potassium Hydroxide | 13 | 1310-58-3 |
| Nitrilotiacetic acid trisodium salt | 10-25 | 139-13-9 |

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove source of exposure or move to fresh air. Call a poison centre or doctor if you feel unwell.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention or advise. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention or advice.

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Ingestion: Immediately call a Poison Centre or doctor. Do not induce vomiting.

Note to physician: Treat symptomatically, no specific antidote. See toxicological information (section 11)

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media: Use water spray, fog or foam.

Unsuitable Extinguishing Media: None known

Specific hazards arising from the product: No specific fire or explosion hazard.

Hazardous thermal decomposition products: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides.

Advice for fire-fighters: Not available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear suitable protective clothing. Wear eye/face protection.

Environmental precautions: Do not allow to enter drains, sewers or watercourses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

Methods and materials for containment and cleaning up: Use a water rinse for final clean-up.

Reference to other sections See also Section 8.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling: Ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

Storage Procedures: Keep containers closed when not in use. Store between the following temperatures: 15 to 40°C.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

| CHEMICAL NAME | ACGIH TLV | | OSHA PEL | | AIHA WEEL | |
|-----------------------------------|---------------------|------|---------------------|---------|---------------------|---------------------|
| | TWA | STEL | TWA | Ceiling | 8 hour TWA | Short term TWA Ⓢ |
| Potassium Hydroxide | 2 mg/m ³ | | 2mg/ m ³ | | 2mg/ m ³ | |
| Nitroliacetic acid trisodium salt | Not available | | Not available | | Not available | |

ACGIH= American Conference of Governmental Industrial Hygienists. TLV = Threshold Limit Value. TWA = Time-weighted Average. STEL = Short-term Exposure Limit OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA = AIHA Guideline Foundation. WEEL = Workplace Environmental Exposure Limit.

Appropriate Engineering Control: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual Protection Measure:

Eye/Face Protection: Do not get into eyes. Wear chemical safety goggles.

Skin Protection: Prevent all skin contact, wear nitrile gloves.

Respiratory protection: Not required

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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------------------|------------------------------|
| Appearance: | Liquid, red colour. |
| Odour: | Odourless |
| pH : | 14 (100 %) |
| Melting Point: | Not available |
| Boiling point: | > 100 °C |
| Flash Point: | Not available |
| Evaporation Rate: | Not available |
| Flammability: | Not available |
| Explosive Limit: | Not available |
| Relative Density: | Approx. = 1.20 (Water = 1) |
| Viscosity: | Not available |
| Solubility in water: | Soluble |
| Auto ignition temperature | Not available |

SECTION 10 – STABILITY AND REACTIVITY

| | |
|-----------------------------------|--|
| STABILITY: | Stable |
| INCOMPATIBILITY: | Acids |
| HAZARDOUS DECOMPOSITION PRODUCTS: | None |
| HAZARDOUS POLYMERIZATION: | Will not occur. |
| CONDITIONS TO AVOID: | Contact with acids will generate heat. |

SECTION 11 – TOXICOLOGICAL INFORMATION

| Chemical Name | LC50 | LD50 | LD50 (dermal) |
|-----------------------------------|---------------------|---------------------|---------------------|
| Potassium Hydroxide | 80 mg/l (daphnia) | 273 mg/kg (rat) | ATE > 2000 mg/kg |
| Nitroliacetic acid trisodium salt | Not Available | >5000 mg/kg (rat) | >5000 mg/kg (rat) |

Routes of exposure: Skin contact, Eye contact, Ingestion.

Eye contact: Material will cause chemical burns. May cause permanent damage if eye is not immediately irrigated.

Skin contact. Material will cause chemical burns.

Inhalation: Material will cause coughing and respiratory tract irritation.

Acute toxicity:

Eye contact: Causes serious eye damage.

Skin contact: Causes severe skin burns

Inhalation: Causes respiratory irritation.

Ingestion: Causes burns to mouth, throat and stomach.

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Reproductive toxicity: No evidence of reproductive toxicity or developmental toxicity.

STOT - single exposure irritating to respiratory system.

STOT - Not classified.

Aspiration hazard: Not classified.

SECTION 12 – ECOLOGICAL CONSIDERATION

Eco toxicity : This material is harmful to aquatic life.

Bio accumulative potential Inorganic: The substance has no potential for bioaccumulation.

Mobility in soil: Not applicable.

Other adverse effects: The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

SECTION 13 – DISPOSAL CONSIDERATIONS

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

SECTION 14 – TRANSPORT INFORMATION

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

SECTION 15 – REGULATORY INFORMATION

Refer to section 2.

SECTION 16 – OTHER INFORMATION

EFFECTIVE DATE:

February 12, 2016: **Revision 1**

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Disclaimer:

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