



MATERIAL SAFETY DATA SHEET

TECH DET

SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: Tech Det
GENERAL/GENERIC NAME:
PRODUCT USE: Mechanical Dishwashing Detergent
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	15-45	1310-58-3	ACGIH 2mg/m3 Ceiling	LD50 365 mg/kg (oral/rat)
Sodium Hypochlorite	5 - 15	7681-52-9	ND	LD50 9 g/kg for 12% (oral/rat)

SECTION 3 – HAZARDS IDENTIFICATION

Route of Entry:

Skin Contact: Corrosive. Causes severe burns..

Eye Contact: Corrosive. Causes permanent damage.

Inhalation: Causes severe irritation and burn of the respiratory tract.

Ingestion: Causes severe 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

FLASH POINT: ND

FLAMMABLE LIMITS: ND

AUTO-IGNITION TEMP: ND

EXTINGUISHING MEDIA: ND

SPECIAL FIREFIGHTING PROCEDURES: Wear self contained breathing apparatus and special protective clothing.

EXPLOSION DATA: ND

HAZARDOUS COMBUSTION PRODUCTS: Chlorine gas, oxides of phosphorous

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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.

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, slightly yellow liquid
ODOUR THRESHOLD: ND
SPECIFIC GRAVITY: 1.16
VAPOUR PRESSURE: ND
VAPOUR DENSITY: ND
PH: (1%) 13
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 burns and irritation.
EYE CONTACT: Corrosive. Causes permanent damage if not treated promptly.
INHALATION: Corrosive. Breathing mist or spray causes severe irritation.
INGESTION: Corrosive. Causes burns and 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

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SECTION 12 – ECOLOGICAL CONSIDERATION

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

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: E, D2B

SECTION 16 – OTHER INFORMATION

Prepared by: Lab Personnel

Phone: (416) 744-2120

Website: www.alpinechem.com

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