



MATERIAL SAFETY DATA SHEET TORNADO

SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: Tornado
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
Sodium Carbonate	10 – 30	497-19-8	None	LD50 4000 mg/kg (oral/rat)
Sodium Metasilicate	10 – 20	6834-92-0	None	LD50 1280 mg/kg (oral/rat)
Sodium Percarbonate	1– 5	10332-33-9		

SECTION 3 – HAZARDS IDENTIFICATION

Route of Entry:

Skin Contact: Corrosive. Causes irritation.

Eye Contact: Corrosive. Causes transient irritation.

Inhalation: Mist causes irritation of the respiratory tract.

Ingestion: May cause 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:
EXPLOSION DATA: ND
HAZARDOUS COMBUSTION PRODUCTS:

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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

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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: Solid
APPEARANCE AND ODOUR: Free flowing white powder
ODOUR THRESHOLD: ND
SPECIFIC GRAVITY: 1.1
VAPOUR PRESSURE: ND
VAPOUR DENSITY: ND
PH: (1%) 12.7
EVAPORATION RATE: ND
INITIAL BOILING POINT: ND
WATER SOLUBILITY: Complete
FREEZING POINT: ND

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable
INCOMPATIBILITY: Acids
HAZARDOUS DECOMPOSITION PRODUCTS: ND
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: Contact with acids will generate heat and chlorine gas.

SECTION 11 – TOXICOLOGICAL INFORMATION

THRESHOLD LIMIT VALUE: ND
EFFECTS OF ACCUTE EXPOSURE:
SKIN CONTACT: Corrosive. Causes burns and irritation.
EYE CONTACT: Corrosive. Causes damage if not treated promptly.
INHALATION: Corrosive. Breathing dust may cause irritation of the respiratory tract.
INGESTION: Corrosive. Causes burns and irritation to digestive tract.
EFFECT OF CHRONIC EXPOSURE: Prolonged and repeated exposure to its dilutions may cause irritation, redness, pain, drying and cracking of skin.
IRRITANCY OF PRODUCT: Serious
CARCINOGENICITY: ND
SENSITIZATION TO MATERIAL: ND
REPRODUCTION TOXICITY: ND
TERATOGENICITY: ND
MUTAGENICITY: ND

SECTION 12 – ECOLOGICAL CONSIDERATION

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SECTION 13 – DISPOSAL CONSIDERATIONS

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

SECTION 14 – TRANSPORT INFORMATION

TDG Classification: Corrosive Solid, Basic, Inorganic N.O.S. (Sodium Hydroxide)
Class 8 UN 3262 Packing Group III

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: D2B, E

SECTION 16 – OTHER INFORMATION

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