

1. IDENTIFICATION AND USE OF THE PRODUCT AND SUPPLIER

PRODUCT NAME ACIDE TORNADE
 USAGE: Detergent

Dilution : 0.1 % - 1.75 %

Maker **LIBERCHEM**  LIBERCHEM Inc.
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 Quebec, Canada
 H9P 1E9
 Tel: 514 631-7177

EMERGENCY PHONE Poison Control Centre (Quebec): 1 (800) 663-5060
 CANUTEC: (613) 996-6666

2. IDENTIFICATION OF HAZARDS

• Risk classification of the substance –

Hazard Statement

Hazard statement

Causes skin burns and severe eye damage.

• Labeling Element



Nitric acid

• Precautionary Advice

If medical advice is required; Alternate the available container or label.

Keep out of reach of children

Read the label before use

Do not breathe in spray fumes.

Skin contact (hair): Remove soiled clothing immediately, rinse thoroughly in the shower

Contact with eyes: Rinse carefully with water for several minutes, remove contact lenses if present and easy to remove, continue rinsing

Dispose of container contents in accordance with national, international, regional and local regulations.

NFPA Classification System - scale (0-4)



Health =3
 Flammability = 0
 Instability: 0

HMIS - echelle (0-4)

HEALTH	3
FLAMMABILITY	0
PHYSICAL DANGER	0

3. COMPOSITION / COMPONENT INFORMATION

HAZARDOUS INGREDIENTS

Chemical Name: Mixtures

Description: Mixture of the substances listed below with non-hazardous additions

7697-37-2	Nitric acid	10 – 30 %
7664-38-2	Phosphoric acid	10 – 30 %

4. FIRST AID

INHALATION: Bring the victim to fresh air. If the victim is unconscious, place him on the side before transporting him. Getting medical attention

SKIN: Wash immediately and thoroughly with water or in the shower; Use mild soap, wash clothes before reuse. Getting medical attention

EYES: Rinse immediately with plenty of water, keeping the eyelids open. Remove contact lenses if the victim wears them and if they can be removed easily. Continue rinsing. Seek medical attention immediately .

INGESTION: DO NOT INDUCE VOMITING, do not make an unconscious person swallow. If the victim is conscious, rinse the victim's bouche.et make him take a lot of water. Seek medical attention immediately.

- Most significant symptoms and effects (acute and delayed): (Refer to section 11) -No other important information available
- Immediate medical management or special treatment, if applicable: No other important information available

5. FIRE-FIGHTING MEASURES

- EXTINGUISHING MEANS: Use the appropriate means to extinguish the fire: Carbon dioxide (CO₂), powder, chemical foam.
- INAPPROPRIATE EXTINGUISHING AGENTS: Avoid direct contact with water, can cause a violent exothermic reaction.
- HAZARDS SPECIFIC TO THE HAZARDOUS PRODUCT OR MIXTURE: No other important information available
- HAZARDOUS COMBUSTION PRODUCTS: decomposition products may include carbon monoxide, phosphorus oxide, sulphur oxide, nitrogen oxides (NO_x)
- SPECIAL PROTECTIVE EQUIPMENT AND SPECIAL PRECAUTIONS FOR FIREFIGHTERS: Use personal protective equipment.

6. MEASURES IN THE EVENT OF AN ACCIDENTAL SPILL

- PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY MEASURES: Wear protective equipment, keep unprotected people away (Refer to section 8 for personal protection). And section 13 for product disposal data.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING: Using non-combustible absorbent materials such as sand, vermiculite, universal absorbents, sawdust, Use adequate ventilation. (Refer to section 13 for product disposal).

7. HANDLING AND STORAGE

- SAFE HANDLING PRECAUTIONS: The workplace must be well ventilated to prevent the formation of vapours
- STORAGE SAFETY CONDITIONS AND INCOMPATIBLE EQUIPMENT: Avoid heat, chlorinated or chlorine-emitting products, bleaches.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

- CONTROL PARAMETERS,

COMPONENTS WITH OCCUPATIONAL EXPOSURE LIMIT VALUES	
7697-37-2 Nitric acid (10 – 30%)	
TWA	2 ppm
ST	4 ppm 10 mg/m ³
7664-38-2 Phosphoric acid	
TWA	1 mg/m ³
ST	3 mg/m ³

- APPROPRIATE ENGINEERING MEASURES: Ensure adequate ventilation, especially in enclosed areas. Use closed vacuum procedures, local exhaust ventilation, or other technical control to keep levels of suspended substances below exposure limits. Emergency eyewash stations and showers must be available in the workplace while handling this product.
- PERSONAL PROTECTIVE MEASURES:

GLOVES: Waterproof gloves



EYES: Protective eyewear



RESPIRATORY: Cartridge mask as needed



OTHER: Protective clothing



9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Dark orange liquid
SMELL	Light
OLFACTORY SMELL	Not available
ph	< 1.0
MELTING POINT	Not available
POINT OF EBULLITION	100°C.
FLASH POINT	not applicable
EVAPORATION RATE	Not available
FLAMMABILITY (Solid, Gas)	Not applicable
LOWER FLAMMABILITY LIMITS	Not available
UPPER FLAMMABILITY LIMITS	Not available
VAPOUR PRESSURE (20 °C)	Not available
DENSITY (20 °C)	1.236
WATER SOLUBILITY	Not available
STEAM DENSITY	Not available
PARTITION COEFFICIENT (n-octanol/water)	Not available
TEMPERATURE DE DECOMPOSITION	Not available
VISCOSITY	Not available

10. STABILITY. AND RESPONSIVENESS

- Product AS SOLD

Product code: 105607

Safety data sheet

- CHEMICAL STABILITY Stable under normal conditions
- RISK OF DANGEROUS REACTIONS Do not mix with chlorinated products, releases chlorine gas.
- CONDITIONS TO AVOID No other important information available
- INCOMPATIBLE MATERIALS Bases, metals, organic matter.
- HAZARDOUS DECOMPOSITION PRODUCTS Carbon oxides Nitrogen oxides (NOx) Sulphur oxides Phosphorus oxides.

11. TOXICOLOGICAL DATA

- INFORMATION ON TOXIC EFFECTS,

Acute toxicity:

7697-37-2	Nitric acid (10 – 30%)
Oral (LD50)	> 2,000 mg/kg (rat)
7664-38-9	Phosphoric acid (5 – 10%)
Oral (LD50)	> 2,000 mg/kg (rat)

HEALTH EFFECTS

Eyes Causes serious eye damage.

Skin Causes severe skin burns.

Ingestion Causes burns in the digestive tract.

Inhalation May cause irritation of the nose, throat, and lungs.

CHRONICLE EXHIBITION No health risks are known or foreseeable under normal conditions of use

CARCINOGENICITY No components of this product have been identified as probable, possible or recognized carcinogens for humans by the IARC.

MUTAGENICITY Data not available

TERATOGENICITY Data not available

12. ECOLOGICAL DATA

ECOTOXICOLOGY Harmful to aquatic organisms.

PERSISTENCE AND DEGRADATION Unknown data

POTENTIAL FOR BIOACCUMULATION/MOBILITY IN SOIL Unknown data

OTHER ADVERSE EFFECTS Unknown data

Toxicity to fish : Nitric acid 96 h LC50: 72 mg/l
Phosphoric acid 96 h LC50: 75.1 mg/l

13. PRODUCT DISPOSAL DATA

Prevent the product from entering sewers, waterways, or soil. Where possible, recycling is preferable to disposal or incineration. If recycling is not possible, dispose of in accordance with local regulations. Dispose of waste in an approved waste treatment facility.

WASTE RESIDUES / UNUSED PRODUCTS Dispose of in accordance with all local, provincial and federal regulations.

14. TRANSPORTATION INFORMATION

Number one
TMD, DOT, IMDG, IATA
Legal designation for transport

UN3264

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (Nitric Acid, Phosphoric Acid)

Transport hazard class



Class: **8** corrosive substances

Label: **8**

Packing Group

II

Environmental hazards

No

15. REGULATORY INFORMATION

Product As Sold
WHMIS Classification E Corrosive substance

The components of this product are listed in the following inventories

- **Canadian Domestic Substances List (DSL):** All components of this product are listed on the Canadian Domestic Substances List (DSL).
- **U.S. TSCA Inventory:** In the TSCA Inventory

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Prepared by Regulatory Affairs Department.

We have characterized the general risks of the product according to *the USE WE RECOMMEND FOR THIS PRODUCT*.

Any use that does not conform to our recommendations may affect the risk characterization.

This MSDS contains health and safety information. The product is to be used in applications that are consistent with our product documentation. Anyone handling this product should be informed of the precautions to be taken with respect to the product and should have access to this information. For all other uses, exposures must be assessed to allow for the implementation of handling practices and training programs that can ensure safety in the workplace. For more information, please speak to your technical representative.

DISCLAIMER: The above information is based on data believed to be accurate. No warranty, express or implied, is based with respect to this data or information. It is the user's responsibility to determine whether the product is suitable for the intended conditions of use.