

#### Section 1. Identification

Product identifier: TORNADE

Other means of identification: Codes: 70476, 70478

Recommended use and restrictions on

use :

Supplier identifier:

All purpose cleaner degreaser (ready to use)

Les Produits Sanitaires Lépine inc.

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24/7

### Section 2. Hazard identification

Hazard classification of substance or

mixture:

EYE IRRITATION - Category 2

Label elements

Symbol(s):



Signal word: Warning

**Hazard statement(s):** Causes serious eye irritation.

Precautionary statement(s)

**Prevention:** Wear eye protection. Wash hand thoroughly after handling.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice or attention.

Storage : Not applicable

Disposal : Not applicable

#### Section 3. Composition/information on ingredients

Substance/material: Mixture

Chemical name	Common name	% (w/w)	CAS number
Dipropylene glycol monomethyl ether	Glycol ether DPM	1 – 5	34590-94-8
Alcohol ethoxylate C9-11		1 – 5	68439-46-3
Tetrasodium ethylenediamine tetraacetate	EDTA	0,5 - 1,5	64-02-8

The actual concentration or concentration range is withheld as a trade secret.

Based on current knowledge of the supplier and in the concentrations applicable, no other ingredients present are classified as hazardous to health or the environment therefore would require reporting in this section.

Occupational exposure limits, where available, are listed in section 8.



#### Section 4. First-aid measures

First-aid measures by route of exposure:

Eye contact: Rinse cautiously with water for several minutes, lifting the eyelids

occasionally. Remove contact lenses, if present and easy to do. Continue

rinsing. If eye irritation persists, get medical advice.

Inhalation: Unlikely route of exposure considering the nature and use of the product.

Remove person to fresh air if required.

Skin contact: Rinse with plenty or water for a few minutes. If irritation occurs, get medical

advice

**Ingestion:** Do not induce vomiting. Consult a doctor or poison center.

Most important symptoms and effects (acute or delayed)

Potential acute health effects

**Eye contact :** Causes serious eye irritation.

Inhalation: Unlikely route of exposure considering the nature and use of the product.

**Skin contact :** May cause skin irritation.

**Ingestion :** May cause irritation to the mouth and throat.

Signs/symptoms of overexposure

Eye contact: Adverse symptoms may include: pain, tearing, conjunctivitis.

Inhalation: Unlikely route of exposure considering the nature and use of the product.

**Skin contact :** Adverse symptoms may include : irritation.

Ingestion: Adverse symptoms may include: abdominal pain, diarrhea, nausea,

vomiting

Immediate medical attention and special treatment, if necessary

Note to physician: Symptomatic treatment required. Contact the poison treatment specialist

immediately if large amounts have been ingested or inhaled.

**Specific treatments:** No special treatment.

Protection of first responders: See section 8.

See toxicological information (section 11)

#### Section 5. Fire-fighting measures

Extinguishing media

**Suitable extinguishing media :** Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

Specific hazard arising from the hazardous

product:

No specific risk of fire or explosion.

Hazardous combustion products: If heated to decomposition, releases carbon oxides and nitrogen

oxides.

**Precautions for fire-fighters:** No special measures are required.

Protective equipment for fire-fighters: It is important that firefighters wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a positive

pressure face shield.



### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use appropriate personal protective equipment : respiratory protection, protective clothing, gloves and eye protection (see

Section 8)

Methods and materials for containment and

cleaning up:

Contain spill for neutralization, in order to prevent environmental contamination. Keep away from sewers or waterways. The small quantities must be removed, wiped and used, when it's possible. For general purpose cleaning, or drain in the sanitary sewers if the municipal and provincial regulations permit it. Recover the abundant quantities with vermiculite or all other absorbent, and eliminate as industrial waste. If the product flowed in the nature inform the municipal, provincial and federal authorities as required by law.

#### Section 7. Handling and storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general hygiene at work: Refer to Section 8 for information on hygiene measures.

Conditions for safe storage (including

incompatible materials):

Store in accordance with local regulations.

#### Section 8. Exposure controls/Personal protection

#### **Control parameters**

Occupational exposure limits:

Name of product or ingredient	Exposure limits - ACGIH	Exposure limits - OSHA	Immediately dangerous to life or health - IDLH
Dipropylene glycol monomethyl ether	150 ppm – STEL 100 ppm - TWA	150 ppm – STEL 100 ppm - TWA	600 ppm
Alcohol ethoxylate C9-11	Not available	Not available	Not available
Tetrasodium ethylenediamine tetraacetate	None	None	None

Appropriate engineering controls: None required in normal use.

Individual protection measures

Hygiene measures: Observe good personal hygiene measure.

Eye / face protection: None required in normal use. If there are splash risks, wear

protective glasses.

Skin protection:

Hand protection: None required in normal use. Body protection: None required in normal use. Other skin protection: None required in normal use. Respiratory protection: None required in normal use.

### Section 9. Physical and chemical properties

Appearance: Light green liquid

Odour: Fruity

Odour threshold: Not available  $11.5 \pm 0.4$ Melting point/Freezing point: ±0°C Initial boiling point:: ± 100 °C

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Flash point: Closed cup:>93,3°C(>199,9°F)

Evaporation rate : Not available Flammability (solids and gases) : Not applicable Lower and upper flammability/explosive limit : Not available Vapour pressure : Not available Vapour density : Not available Relative density :  $1,00 \pm 0,01g/ml$ 

Solubility: Easily soluble in the following materials: cold and hot water

Partition coefficient n-octanol/water:

Auto-ignition temperature:

Not available

Not available

Not available

Viscosity:

Not available

#### Section 10. Stability and reactivity

Reactivity: No specific test data to the reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous

reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials:** Do not blend with other detergents.

Hazardous decomposition

products:

If heated to decomposition, releases carbon oxides, nitrogen oxides.

### Section 11. Toxicological information

#### Information on toxicological effects

Toxicological data:

Name of product or ingredient	Result	Species	Dosage	Exposure	Observation
Dipropylene glycol monomethyl ether	LD50 Oral	Rat	>5000 mg/kg	-	-
Dipropylene glycol monomethyl ether	LD50 Dermal	Rabbit	9510 mg/kg	-	-
Alcohol ethoxylate C9-11	LD50 Oral	Rat	>2000 mg/kg	-	-
Alcohol ethoxylate C9-11	LD50 Dermal	Rabbit	>2000 mg/kg	-	-
Tetrasodium ethylenediamine	LD50 Oral	Rat	3030 mg/kg	-	-
tetraacetate	LD50 Dermal	Rabbit	>5000 mg/kg	-	- !

 Sensitization :
 No data available

 Mutagenicity :
 No data available

 Carcinogenicity :
 No data available

 Toxicity to reproduction :
 No data available

 Teratogenicity :
 No data available

 Systemic toxicity for some target organs
 No data available

- single exposure:

Target organ toxicity - repeated

exposure :

No data available



Route of exposure: Skin contact, eye contact, inhalation, ingestion.

Potential acute health effects

**Eye contact:** Causes serious eye irritation.

Inhalation: Unlikely route of exposure considering the nature and use of the product.

**Skin contact :** May cause skin irritation.

Ingestion: May cause irritation to the mouth and throat.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include: pain, tearing, conjunctivitis.

Inhalation: Unlikely route of exposure considering the nature and use of the product.

**Skin contact :** Adverse symptoms may include : irritation.

Ingestion: Adverse symptoms may include: abdominal pain, diarrhea, nausea,

vomiting.

Delayed and immediate effects, and chronic effects from short-term and long-term exposure

Short-term exposure:

No important effects or critical dangers known.

Long-term exposure:

No important effects or critical dangers known.

Potential chronic health effects:

No important effects or critical dangers known.

Numerical value of toxicity

Acute toxicity estimates

Route of exposure	ATE value
Oral	>5000 mg/kg
Dermal	>5000 mg/kg

### Section 12. Ecological information

#### **Ecotoxicity:**

Name	Results	Species	Exposure
Not available	Not available	Not available	Not available

 Persistence and degradability:
 Not available

 Bioaccumulative potential:
 Not available

 Mobility in soil:
 Not available

 Other adverse effects:
 Not available

#### Section 13. Disposal considerations

Disposal methods: It is important to minimize or avoid generation of waste wherever possible.

Dispose of contents and container in accordance with all applicable local, state,

and national regulations.

#### Section 14. Transport information

UN number : Not applicable
UN proper shipping name : Not applicable
Packing group : Not applicable
Environmental hazards : Not applicable

**Special precautions:** Transport with local users: Always transport in containers that are correct and

secure. Ensure that persons transporting the product know what to do in case of

accident or spillage.



### Section 15. Regulatory information

The product classification and SDS were developed in accordance with the HPR.

#### Section 16. Other information

#### Procedure used to prepare the classification

Classification	Justification
EYE IRRITATION – Category 2	Calculation method

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<u>Prepared by:</u> The research and development department of Produits Sanitaires Lépine inc.

<u>Legend of abbreviations</u>: ATE = Acute toxicity estimate

SDS = Safety Data Sheet UN = United Nations

HPR = Hazardous Products Regulations

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

TDG: Transportation of Dangerous Goods

CAS: Chemical Abstract Sercices TWA: Time-Weighted Average STEL: Short-Term Exposure Limit

IDLH: Immediately dangerous to life or health

LC : Lethal Concentration LD : Lethal Dose

EC: Effective Concentration

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