

1 • Identification

- . **Product name:** TORPEDO Liquid Drain Opener
- . **Article number:** 1428206003
- . **Recommended use:** Drain opener
- . **Restrictions on use:** All other uses than those indicated on the product label and technical data sheet
- . **Manufacturer:**
Avmor LTD
950, Michelin
Laval, QC, H7L 5C1
Canada
1-800-387-8074
www.avmor.com
- . **Emergency telephone number:** CANUTEC 1-613-996-6666

2 • Hazard identification

- . **Classification of the product as sold:**
Met. Corr. 1 H290 May be corrosive to metals.
Acute Tox. 1 H330 Fatal if inhaled.
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
Carc. 1A H350 May cause cancer. ROUTE OF EXPOSURE: Inhalation.
STOT SE 3 H335 May cause respiratory irritation.

- . **Label elements**

- . **Hazard pictograms:**



GHS05 GHS06 GHS07 GHS08

- . **Signal word:** Danger

- . **Hazard statements:**

May be corrosive to metals.
Fatal if inhaled.
Causes severe skin burns and eye damage.
May cause cancer. ROUTE OF EXPOSURE: Inhalation.
May cause respiratory irritation.

- . **Precautionary statements:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not breathe dust/fume/gas/mist/vapours/spray.
[In case of inadequate ventilation] wear respiratory protection.

02/09/2017

02/09/2017

Product name: TORPEDO Liquid Drain Opener

(Contd. of page 1)

Wear protective gloves/protective clothing/eye protection/face protection.

Keep only in original packaging.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or a doctor.

Wash contaminated clothing before reuse.

Absorb spillage to prevent material-damage.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

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

Classification system

NFPA ratings (scale 0 - 4):



Health = 4

Fire = 0

Reactivity = 2

The substance demonstrates unusual reactivity with water.

Hazard not otherwise classified: None Known

Notes: For the wording of the listed abbreviations refer to section 16.

Product AT USE DILUTION: N/A

3 • Composition/Information on ingredients

Chemical characterization: Mixtures

Description: Aqueous mixture consisting of the following components:

Components:

7664-93-9	Sulfuric Acid	60-100%
-----------	---------------	---------

Additional information: Any concentration shown as a range is to protect confidentiality or is due to batch variation.

4 • First aid measures

Description of first aid measures

After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation. Get medical attention.

After skin contact: Immediately rinse with water.

After eye contact:

Rinse opened eye for several minutes under running water. Remove contact lenses, if present and easy to do so.

Continue rinsing for a minimum of 15 to 60 minutes. Then consult a doctor.

After ingestion:

Drink copious amounts of water and provide fresh air. Immediately call a doctor. Do not induce vomiting.

(Contd. on page 3)

02/09/2017

02/09/2017

Product name: TORPEDO Liquid Drain Opener

(Contd. of page 2)

- . **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

5 • Firefighting measures

- . **Suitable extinguishing media:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
- . **Specific hazards arising from the product:** No further relevant information available.
- . **Special protective equipment and precautions for fire-fighters:**
Mouth respiratory protective device.
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
- . **Additional information:** This product is not flammable.

6 • Accidental release measures

- . **Personal precautions, protective equipment and emergency procedures:**
Wear recommended protective equipment(s). Keep unprotected persons away.
Protective gloves (See Protection of Hands)
Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from organic vapors.
- . **Environmental precautions:** No special measures required.
- . **Methods and material for containment and cleaning up:**
Surround and absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
Use neutralizing agent (eg. sodium bicarbonate).
- . **Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 • Handling and storage

- . **Precautions for safe handling:**
Ensure good ventilation at the workplace.
Open and handle receptacle with care.
- . **Information about protection against explosions and fires:** Keep respiratory protective device available.
- . **Requirements to be met by storerooms and receptacles:** No special requirements.
- . **Information about storage in one common storage facility:** Store away from metals.
- . **Conditions for safe storage, including any incompatibilities:**
Keep in the original receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Store under lock and key and out of the reach of children.
- . **Specific end use(s):** No further relevant information available.

*** 8 • Exposure controls/ Personal protection**

- . **Components with limit values that require monitoring at the workplace:**

7664-93-9 Sulfuric Acid

EL	Long-term value: 0.2 mg/m ³ ACGIH A2; IARC 1
----	--

(Contd. on page 4)

02/09/2017

02/09/2017

Product name: TORPEDO Liquid Drain Opener

(Contd. of page 3)

EV | Long-term value: 0.2 mg/m³**. Undiluted Product****. Personal protective equipment:**

Safety goggles (see Eye protection)



acid resistant gloves

. General protective and hygienic measures:

Avoid contact with the eyes and skin.

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Store protective clothing separately.

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

Do not inhale dust, smoke, mist gases, fumes or aerosols.

Be sure to clean skin thoroughly after work and before breaks.

Do not store food in the working area.

Do not carry product impregnated cleaning cloths in trouser pockets.

. Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Use suitable respiratory protective device when high concentrations are present.

If room is well-ventilated, a respirator is not needed under normal and intended conditions of product use.

. Protection of hands:

Acid resistant gloves

The glove material has to be impermeable and resistant to the product.

Preventive skin protection by use of skin-protecting agents is recommended.

Check protective gloves prior to each use for their proper condition

. Eye protection:

Safety glasses are suggested when using this product in heavy use and institutional environments

Wear splash-proof chemical goggles in an industrial environment.

. Body protection:

Protective clothing is recommended only under exceptional circumstances such as fire or spill of concentrated product

Acid resistant protective clothing (recommended)

9 • Physical and chemical properties

- | | |
|---------------------------------------|----------------|
| . Form: | Liquid |
| . Colour: | Red |
| . Odour: | Pungent |
| . Odor threshold: | Not determined |
| . pH-Value: | <1 |
| . Melting point/Melting range: | N/D |
| . Boiling point/Boiling range: | N/D |
| . Fusion temperature / range: | Not determined |

(Contd. on page 5)

02/09/2017

02/09/2017

Product name: TORPEDO Liquid Drain Opener

(Contd. of page 4)

- . **Flash point:** Not determined
- . **Flammability (solid, gaseous):** Not applicable

- . **Ignition temperature:** Not determined.

- . **Decomposition temperature:** Not determined

- . **Auto igniting:** Product is not selfigniting.

- . **Danger of explosion:** Product does not present an explosion hazard.

- . **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.

- . **Vapour pressure:** N/D

- . **Bulk density:** N/D
- . **Relative density:** ≥ 1.821
- . **Vapour density (air=1):** <1 (aqueous solution)
- . **Evaporation rate:** Not determined
- . **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.

- . **Partition coefficient (n-octanol/water):** Not determined

10 • Stability and reactivity

- . **Reactivity:** Not determined.
- . **Chemical stability:** The product is stable.
- . **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- . **Possibility of hazardous reactions:** Reacts with alkali.
- . **Conditions to avoid:** Avoid freezing and extreme heat conditions.
- . **Incompatible materials:** No further relevant information available.
- . **Hazardous decomposition products:**
In case of decomposition: carbon monoxide and carbon dioxide and traces of volatile halogenated compounds.

11 • Toxicological information

- . **Information on the likely routes of exposure**
- . **Numerical measures of acute toxicity:**

. Components		Type	Value (Species)
Mean of exposure			
ATE (Acute Toxicity Estimates)			
Oral	LD50		2144 mg/kg (Rat)
Inhalative	LC50 (4 h)		0.376 mg/L (Rat)
7664-93-9 Sulfuric Acid			
Oral	LD50		2140 mg/kg (Rat)
Inhalative	LC50 (4 h)		.375 mg/L (Rat)

(Contd. on page 6)

02/09/2017

02/09/2017

Product name: TORPEDO Liquid Drain Opener

(Contd. of page 5)

- . **Symptomes related to the physical, chemical and toxicological characteristics**
- . **If on the skin:** CORROSIVE: Strong caustic effect on skin and mucous membranes.
- . **If on the eye:**
CORROSIVE: Strong caustic effect.
Strong irritant with the danger of severe eye injury.
- . **After ingestion:** May cause irritation of the gastrointestinal tract, nausea, vomiting and headache.
- . **Sensitization:** No sensitizing effects known.
- . **Delayed and immediate effects, and chronic effects from short-term and long-term exposure:**
Prolonged or frequent contact can cause eczema and inflammation of the skins as a results of degreasing.

. **Carcinogenic categories:**

. IARC (International Agency for Research on Cancer)		
7664-93-9	Sulfuric Acid	1
. NTP (National Toxicology Program)		
7664-93-9	Sulfuric Acid	K

12 • Ecological information

- . **Bioaccumulative potential:** No further relevant information available.
- . **Mobility in soil:** Not determined
- . **Ecotoxicity:** No relevant information available.
- . **Other adverse effects** No further relevant information available.

13 • Disposal considerations

- . **Waste treatment methods recommendation:**
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with local authority requirements.
Dispose in accordance with all applicable federal, state, provincial and local laws and regulations. Contact your local, state, provincial or Federal environmental agency for specific rules.
- . **Uncleaned packagings recommendation:**
Do not re-use empty containers.
Dispose of packaging according to regulations on the disposal of packagings.
- . **Recommended cleansing agent:**
Water
Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14 • Transport information

- . **UN-Number**
- . **DOT, IATA** UN1830
- . **UN proper shipping name**
- . **DOT/TDG** Sulfuric acid
- . **IATA** SULPHURIC ACID
- . **Transport hazard class(es)**

- . **DOT, IATA**
- . **Class** 8 Corrosive substances
- . **Label** 8

(Contd. on page 7)

02/09/2017

02/09/2017

Product name: TORPEDO Liquid Drain Opener

(Contd. of page 6)

- . Packing group
- . DOT, IATA II

15 • Regulatory information

- . Safety, health and environmental regulations/legislation specific for the substance or mixture
- . Canadian substance listings

. Canadian Domestic Substances List (DSL)	
7664-93-9	Sulfuric Acid
7732-18-5	water, distilled, conductivity or of similar purity
. Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	
. Canadian Ingredient Disclosure list (limit 1%)	
All ingredients are listed.	

- . National regulations:

- . Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

16 • Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

- . Department issuing SDS:

Prepared by :
Regulatory Affairs Department

- . Date of creation/last revision: 03/02/2016

- . Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent