

**Section 1 - Identification**

Product Name: **TDO-40** An alkali drain opener

6/16/23

<b>Damon Industries, Inc.</b> <b>12435 Rockhill Ave NE</b> <b>Alliance, Ohio 44601</b> <b>U.S.A.</b>	<b>1-800-362-9850</b> <b>1-330-821-5310</b> <b>1-330-821-6355 Fax</b> <b>info@DamonQ.com</b>	<b>24 HOUR EMERGENCY RESPONSE</b>  <b>1-800-535-5053 (U.S. &amp; Canada)</b> <b>001-352-323-3500 (International)</b>
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**Section 2 - Hazards Identification**

Hazard categories: Corrosive to metals 1; Skin Corrosion/Irritation 1; Acute Toxicity-Oral 4; Eye Corrosion/Irritation 1

Hazard statements: Keep out of reach of children. Read label and SDS before use. Causes severe skin burns and serious eye damage. Harmful if swallowed. May be corrosive to metals.

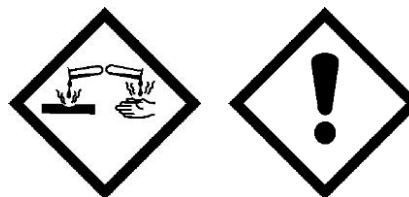
Signal word: Danger

Pictogram: Corrosion and Exclamation

Precautionary statements

Prevention

- Do not breathe dusts or mists.
- Wash hands thoroughly after handling.
- Wear protective gloves and clothing.
- Wear eye and face protection.
- Do not eat, drink or smoke when using this product.
- Keep only in original container.



Response

- IF SWALLOWED:** Call a POISON CENTER if you feel unwell. Rinse mouth. Do NOT induce vomiting.
- IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.
- IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or a physician.
- IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or a physician.

Storage: Store locked up.

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

**Section 3 - Composition / Information on Ingredients**

Ingredient	C.A.S. No.	Concentration
Potassium hydroxide	1310-58-3	>=40 <=50

The remaining ingredients are not reportable as described in Appendix D to Sec. 1910.1200 Table D.1.

**Section 4 - First Aid Measures**

- DANGER:** Harmful if swallowed. Causes severe skin burns and eye damage.
- EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center or a physician.
- SKIN:** Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water/shower. If skin irritation persists get medical attention.
- INHALATION:** Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or a doctor.
- INGESTION:** Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

**Section 5 - Fire-Fighting Measures**

- Suitable fire extinguishing media:** Use water spray, fog or foam.
- Specific hazards arising from the chemical:** Containers may build pressure and rupture.
- Hazardous thermal decomposition products:** Carbon Dioxide, Carbon Monoxide
- Specific fire-fighting methods:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire fighters:** Fire fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.
- Personal precautions:** Put on appropriate personal protective equipment (see section 8)

**Environmental precautions and clean-up methods:** Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Disperse vapors with water spray. Prevent runoff from entering drains, sewers, streams or other bodies of water. Absorb spill with inert material. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

#### Section 6 - Accidental Release Measures

Do not use or store near heat, sparks or open flame. Store in a cool, dry place. Do not get in eyes, on skin or on clothing. Avoid breathing sprays and vapors. Keep out of reach of children.

#### Section 7 - Handling and Storage

Empty containers retain product residue and may be hazardous. Observe all precautions given in this data sheet. Keep from freezing.

#### Section 8 - Exposure Controls / Personal Protection

Potassium Hydroxide  
ACGIH TLV 2 mg/m<sup>3</sup>  
OSHA PEL 2 mg/m<sup>3</sup>

**Eye Protection:** Wear safety glasses or goggles.

**Skin Protection:** Wear impervious gloves (made from rubber, nitrile or neoprene), clothing, and boots.

**Respiratory Protection:** When respiratory protection is required, use an organic vapor & particulate cartridge. All respiratory programs must meet OSHA's 29 CFR 1910.34 & ANSI Z88.2 requirements.

**Engineering Controls:** Good general ventilation required.

#### Section 9 - Physical and Chemical Properties

<b>Appearance and Odor:</b> A clear red liquid	
<b>Odor Threshold:</b> Not Available	<b>Vapor Pressure:</b> Not Available
<b>pH:</b> concentrate 12-13	<b>Vapor Density:</b> Not Available
<b>Melting Point:</b> Not Available	<b>Relative Density (Specific Gravity):</b> 1.4
<b>Freezing Point:</b> Not Available	<b>Solubility(ies): Water:</b> 100%
<b>Boiling Point, Initial:</b> Not Available	<b>Partition coefficient:</b> Not Available
<b>Boiling Range:</b> Not Available	<b>Auto-ignition Temperature:</b> Not Available
<b>Flash Point:</b> None. (ASTM D-56 closed cup).	<b>Decomposition Temperature:</b> Not Available
<b>Evaporation Rate:</b> Not Available	<b>Viscosity:</b> Not Available
<b>Flammability: (solid, gas):</b> Not Available	<b>Volatiles Percent:</b> Not Available
<b>Upper Explosive Limit:</b> Not Available	<b>V.O.C.:</b> 0% - 0 grams/liter
<b>Lower Explosive Limit:</b> Not Available	

#### Section 10 - Stability and Reactivity

**Incompatibility:** Acids and certain metals (aluminum)

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>

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

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** High temperatures

#### Section 11 - Toxicological Information

**Primary Routes of Entry:** Skin contact, eye contact, and inhalations

##### Potential Health Effects:

**Eyes** - Causes severe irritation experienced as discomfort or pain, excess blinking and tear production, with redness and swelling of the conjunctiva.

**Skin** - Brief contact may cause slight irritation. Prolonged contact may cause more severe irritation with pain, local redness and swelling and possible tissue destruction.

**Inhalation** - High vapor concentrations may be irritating to the respiratory tract.

**Ingestion** - Harmful or fatal if swallowed. Corrosive. Can cause severe burns and complete tissue perforation of mucous membranes, mouth, throat and stomach.

**Chronic / Long Term Effects:** None known.

**Target Organ Effects:** Lungs and upper respiratory tract, gastrointestinal tract, eyes, skin.

**Reproductive/Developmental Information:** No data.

**Carcinogenic Information:** This material is not listed as a carcinogen by IARC, NTP or OSHA.

**Acute Toxicity Values:** Potassium Hydroxide: Oral - LD<sub>50</sub>, rat 273 mg/Kg

#### Section 12 - Ecological Information

Potassium Hydroxide: Fish LC<sub>50</sub>, Western mosquitofish (*Gambusia affinis*), 80 mg/l, 96 hr.

### Section 13 - Disposal Considerations

**Waste Disposal Method:** Waste must be disposed of in accordance with federal, state and local environmental control regulations. See label for further instructions.

### Section 14 - Transport Information

**D.O.T. Hazard Class:** UN3266, Corrosive Liquid, Basic, Inorganic, n.o.s. (contains Potassium Hydroxide), 8, PGII

### Section 15 - Regulatory Information

The components of this product are on the TSCA inventory of chemical substances.

### Section 16 - Other Information

**HMIS® III:** H:3 F:0 R:1 These ratings estimates are to be used only with a fully implemented training program in the workplace. HMIS® is a mark registered by the NPCA.

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.