

# Safety Data Sheet

## TKO Plus Concrete Remover

SDS Revision Date:

05/12/2015

### 1. Identification

#### 1.1. Product identifier

**Product Identity**

TKO Plus Concrete Remover

**Alternate Names**

Concrete Remover

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use**

See Technical Data Sheet.

**Application Method**

See Technical Data Sheet.

#### 1.3. Details of the supplier of the safety data sheet

**Company Name**

Commercial Maintenance Supply, Inc.  
6021 TARBELL ROAD  
SYRACUSE, NEW YORK 13206 USA

**Emergency**

**CHEMTREC (USA)**

(800) 424-9300

**Customer Service: Commercial Maintenance Supply, Inc.**

315-437-3806 or 800-955-DRUM

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Acute Tox. 4;H302

Harmful if swallowed.

Acute Tox. 4;H332

Harmful if inhaled.

Skin Corr. 1B;H314

Causes severe skin burns and eye damage.

Eye Dam. 1;H318

Causes serious eye damage.

STOT SE 3;H335

May cause respiratory irritation.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Danger**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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### [Prevention]:

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / eye protection / face protection.

### [Response]:

P301+312 IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER or doctor / physician.

P330 Rinse mouth.

P331 Do NOT induce vomiting.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363 Wash contaminated clothing before reuse.

### [Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

### [Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

## 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations              | Weight % | GHS Classification                   | Notes  |
|---|----------|--------------------------------------|--------|
| Hydrochloric acid<br>CAS Number: 0007647-01-0 | 50 - 75  | Skin Corr. 1B;H314<br>STOT SE 3;H335 | [1][2] |

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

## 4. First aid measures

### 4.1. Description of first aid measures

#### General

In all cases of doubt, or when symptoms persist, seek medical attention.  
Never give anything by mouth to an unconscious person.

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|                   |  |
|-------------------|--|
| <b>Inhalation</b> | If over exposure occurs, and respiratory symptoms occur, move victim away from exposure and into fresh air. Oxygen should be administered if breathing difficulties develop. Seek immediate medical attention. |
| <b>Eyes</b>       | Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.   |
| <b>Skin</b>       | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.  |
| <b>Ingestion</b>  | If ingested do not induce vomiting. Give water or milk of magnesia. Never give an unconscious person. Do not leave victim unattended. Get immediate medical attention.   |

### 4.2. Most important symptoms and effects, both acute and delayed

|                 |  |
|-----------------|--|
| <b>Overview</b> | <b>Eye Contact:</b> Corrosive, causes eye burns. Direct eye contact with product or mist may cause redness, tearing and stinging.<br><b>Skin Contact:</b> Corrosive, causes burns with contact<br><b>Inhalation:</b> Corrosive, breathing high concentrations of vapors or mists causes irritation of the nose and throat, dizziness, weakness, fatigue, nausea, headache<br><b>Ingestion:</b> Corrosive, ingestion can cause immediate pain and burns of the mouth, throat, esophagus and gastrointestinal tract. May cause nausea, vomiting and diarrhea.<br><b>Comments:</b> If exposure and symptoms occur seek immediate medical attention. |
|-----------------|--|

See section 2 for further details.

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | Harmful if inhaled. May cause respiratory irritation. |
| <b>Eyes</b>       | Causes serious eye damage.                            |
| <b>Skin</b>       | Causes severe skin burns and eye damage.              |
| <b>Ingestion</b>  | Harmful if swallowed.                                 |

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Flood with water, dry chemical, CO2 or alcohol foam.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Highly corrosive to many materials. Hydrogen gas formed on contact with most metals. HCl vapors emitted when heated, chlorine gas may be formed by electrolysis or oxidation.

Avoid breathing dust / fume / gas / mist / vapors / spray.

### 5.3. Advice for fire-fighters

Special Fire Fighting Procedures: Cool exposed equipment with water spray using full protective clothing and self contained breathing apparatus if fighting fire.

Unusual Fire and Explosion Hazards: None expected, can react with most metals to form flammable hydrogen gas.

Muriatic acid does not decompose at temperatures below 1500°C. It is non-flammable; however, flammable and potentially explosive hydrogen gas is generated from reaction with most metals.

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### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

#### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### 6.3. Methods and material for containment and cleaning up

Precautions in Case of Spill: Absorb spill with inert materials then place in a chemical waste container, neutralize with soda ash or lime. For large spills, dike and isolate spill for later disposal, neutralize with soda ash or lime.

Always follow local, state and federal government regulations. Immediate cleanup of any spill is recommended.

Disposal method: Dispose of in accordance with local, county, state and federal regulations.

Contain, dilute cautiously with water, and neutralize with soda ash or lime.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage facilities must be properly designed and diked to contain any spillage.

Store between 40F and 140F

Incompatible materials: Contact with metal oxides, hydroxides, amines carbonates & other alkaline metals. Strong alkaline material, will attack most metals avoid contact with glass.

Store in unopened container under cool and dry conditions. Keep out of direct sunlight. Do not rinse or reuse empty containers. Do not store with or near strong bases.

See section 2 for further details. - [Storage]:

#### 7.3. Specific end use(s)

No data available.

### 8. Exposure controls and personal protection

#### 8.1. Control parameters

##### Exposure

| CAS No.      | Ingredient        | Source   | Value                          |
|--------------|-------------------|----------|--------------------------------|
| 0007647-01-0 | Hydrochloric acid | OSHA     | C 5 ppm (7 mg/m <sup>3</sup> ) |
|              |                   | ACGIH    | Ceiling: 2 ppm Revised 2003,   |
|              |                   | NIOSH    | C 5 ppm (7 mg/m <sup>3</sup> ) |
|              |                   | Supplier | No Established Limit           |

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### Carcinogen Data

| CAS No.      | Ingredient        | Source | Value   |
|--------------|-------------------|--------|---|
| 0007647-01-0 | Hydrochloric acid | OSHA   | Select Carcinogen: No   |
|              |                   | NTP    | Known: No; Suspected: No  |
|              |                   | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No; |

### 8.2. Exposure controls

|                             |   |
|-----------------------------|---|
| <b>Respiratory</b>          | Do not inhale vapors. Engineering or administrative controls should be implemented to reduce exposure. Use NIOSH recommended respirator if needed.  |
| <b>Eyes</b>                 | Chemical splash goggles.  |
| <b>Skin</b>                 | Acid resistant gloves. Full acid resistant clothing & boots recommended.  |
| <b>Engineering Controls</b> | Forced Mechanical Exhaust Recommended   |
| <b>Other Work Practices</b> | Eye wash station should be available. Fresh water supply should be available. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. |

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

|  |  |
|--|--|
| <b>Appearance</b>                                      | Blue Liquid  |
| <b>Odor</b>  | Characteristic/Cherry  |
| <b>Odor threshold</b>                                  | Not Measured   |
| <b>pH</b>  | Not Measured   |
| <b>Melting point / freezing point</b>                  | Not Measured   |
| <b>Initial boiling point and boiling range</b>         | 214-217 Deg F.   |
| <b>Flash Point</b>                                     | Not Applicable   |
| <b>Evaporation rate (Ether = 1)</b>                    | Not Applicable   |
| <b>Flammability (solid, gas)</b>                       | Not Applicable   |
| <b>Upper/lower flammability or explosive limits</b>    | <b>Lower Explosive Limit:</b> Not Measured<br><b>Upper Explosive Limit:</b> Not Measured |
| <b>Vapor pressure (Pa)</b>                             | Not Measured   |
| <b>Vapor Density</b>                                   | Not Applicable   |
| <b>Specific Gravity</b>                                | Not Measured   |
| <b>Solubility in Water</b>                             | Not Measured   |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | Not Measured   |
| <b>Auto-ignition temperature</b>                       | Not Measured   |
| <b>Decomposition temperature</b>                       | Not Measured   |
| <b>Viscosity (cSt)</b>                                 | Not Measured   |
| <b>Density (lbs/gal)</b>                               | 9.5  |

### 9.2. Other information

No other relevant information.

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### 10. Stability and reactivity

**10.1. Reactivity**

Hazardous Polymerization will not occur.

**10.2. Chemical stability**

Stable under normal circumstances.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Avoid heat and direct sunlight.

Self-contained breathing apparatus should be used to prevent inhalation of gases. Water fog will be most effective for controlling vapors.

**10.5. Incompatible materials**

Contact with metal oxides, hydroxides, amines carbonates & other alkaline metals. Strong alkaline material, will attack most metals avoid contact with glass.

**10.6. Hazardous decomposition products**

Highly corrosive to many materials. Hydrogen gas formed on contact with most metals. HCl vapors emitted when heated, chlorine gas may be formed by electrolysis or oxidation.

### 11. Toxicological information

**Acute toxicity**

| Ingredient                      | Oral LD50,<br>mg/kg             | Skin LD50,<br>mg/kg                   | Inhalation<br>Vapor LC50,<br>mg/L/4hr | Inhalation<br>Dust/Mist LC50,<br>mg/L/4hr | Inhalation<br>Gas LC50,<br>ppm |
|---------------------------------|---------------------------------|---------------------------------------|---------------------------------------|---|--------------------------------|
| Hydrochloric acid - (7647-01-0) | 900.00, Rabbit -<br>Category: 4 | 5,010.00,<br>Rabbit -<br>Category: NA | 781.00, Mouse -<br>Category: NA       | No data<br>available                      | 3,124.00, Rat -<br>Category: 4 |

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Classification                | Category | Hazard Description                       |
|-------------------------------|----------|--|
| Acute toxicity (oral)         | 4        | Harmful if swallowed.                    |
| Acute toxicity (dermal)       | ---      | Not Applicable                           |
| Acute toxicity (inhalation)   | 4        | Harmful if inhaled.                      |
| Skin corrosion/irritation     | 1B       | Causes severe skin burns and eye damage. |
| Serious eye damage/irritation | 1        | Causes serious eye damage.               |
| Respiratory sensitization     | ---      | Not Applicable                           |
| Skin sensitization            | ---      | Not Applicable                           |

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|                        |     |                                   |
|------------------------|-----|-----------------------------------|
| Germ cell mutagenicity | --- | Not Applicable                    |
| Carcinogenicity        | --- | Not Applicable                    |
| Reproductive toxicity  | --- | Not Applicable                    |
| STOT-single exposure   | 3   | May cause respiratory irritation. |
| STOT-repeated exposure | --- | Not Applicable                    |
| Aspiration hazard      | --- | Not Applicable                    |

## 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

| Ingredient                      | 96 hr LC50 fish,<br>mg/l | 48 hr EC50 crustacea,<br>mg/l | ErC50 algae,<br>mg/l |
|---------------------------------|--------------------------|-------------------------------|----------------------|
| Hydrochloric acid - (7647-01-0) | 282.00, Gambusia affinis | 260.00, Crangon crangon       | Not Available        |

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

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### 14. Transport information

|   | <b>DOT (Domestic Surface Transportation)</b>                                     | <b>IMO / IMDG (Ocean Transportation)</b>                         | <b>ICAO/IATA</b>   |
|---|--|--|--|
| <b>14.1. UN number</b>                    | UN3264   | UN3264   | UN3264   |
| <b>14.2. UN proper shipping name</b>      | UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (hydrochloric acid), 8, III | Corrosive liquid, acidic, inorganic, n.o.s., (hydrochloric acid) | Corrosive liquid, acidic, inorganic, n.o.s., (hydrochloric acid) |
| <b>14.3. Transport hazard class(es)</b>   | <b>DOT Hazard Class: 8</b>   | <b>IMDG: 8</b><br><b>Sub Class: Not Applicable</b>               | <b>Air Class: 8</b>  |
| <b>14.4. Packing group</b>                | III  | III  | III  |
| <b>14.5. Environmental hazards</b>        |  |  |  |
| <b>IMDG</b>                               | Marine Pollutant: No   |  |  |
| <b>14.6. Special precautions for user</b> | No further information   |  |  |

### 15. Regulatory information

|  |  |
|--|--|
| <b>Regulatory Overview</b>                               | The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.                                |
| <b>Toxic Substance Control Act (TSCA)</b>                | All components of this material are either listed or exempt from listing on the TSCA Inventory.  |
| <b>WHMIS Classification</b>                              | D2B E  |
| <b>US EPA Tier II Hazards</b>                            | <b>Fire:</b> No<br><b>Sudden Release of Pressure:</b> No<br><b>Reactive:</b> No<br><b>Immediate (Acute):</b> Yes<br><b>Delayed (Chronic):</b> No |
| <b>EPCRA 311/312 Chemicals and RQs (lbs):</b>            | Hydrochloric acid ( 5,000.00)  |
| <b>EPCRA 302 Extremely Hazardous:</b>                    | Hydrochloric acid  |
| <b>EPCRA 313 Toxic Chemicals:</b>                        | Hydrochloric acid  |
| <b>Proposition 65 - Carcinogens (&gt;0.0%):</b>          | To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.                                       |
| <b>Proposition 65 - Developmental Toxins (&gt;0.0%):</b> | To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.                                       |
| <b>Proposition 65 - Female Repro Toxins (&gt;0.0%):</b>  | To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.                                       |



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**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**New Jersey RTK Substances (>1%):**

Hydrochloric acid

**Pennsylvania RTK Substances (>1%):**

Hydrochloric acid

### 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

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