

# SAFETY DATA SHEET



## TR 405L

### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND THE SUPPLIER

GHS PRODUCT IDENTIFIER: TR 405L

OTHER MEANS OF IDENTIFICATION:

Product Type Cleaning liquid mixture

Product Code M-38

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

Product Use Industrial cleaning. Professional use only.

Uses Advised Against None identified

SUPPLIER'S DETAILS:

SDS SUPPLIED BY:

Oliver Chemical Company, Inc.

2908 Spring Grove Avenue

Cincinnati, OH 45225

1-888-541-6526 (Monday – Friday 8:30 am – 4:30 pm)

MANUFACTURED BY:

Oliver Chemical Company, Inc.

2908 Spring Grove Avenue

Cincinnati, OH 45225

1-888-541-6526 (Monday – Friday 8:30 am – 4:30 pm)

DISTRIBUTED BY:

A & B Deburring

625 Carr Street

Cincinnati, Ohio 45203

1-800-552-7111

EMERGENCY PHONE NUMBER:

24 Hour Emergency Contact:

CHEMTREC 1-800-424-9300

**2. HAZARD IDENTIFICATION**GHS CLASSIFICATION OF THE SUBSTANCE/MIXTURE:

| CODE | HAZARD STATEMENT                        | HAZARD CLASS                            | CATEGORY |
|------|---|---|----------|
|      | <b>PHYSICAL</b>                         |   |          |
| H290 | May be corrosive to metals              | CORROSIVE TO METALS                     | 1        |
|      | <b>HEALTH</b>                           |   |          |
| H314 | Causes severe skin burns and eye damage | SKIN - CORROSION/IRRITATION             | 1A       |
| H318 | Causes serious eye damage               | EYE - SERIOUS EYE DAMAGE/EYE IRRITATION | 1        |
| H302 | Harmful if swallowed                    | ORAL - ACUTE TOXICITY                   | 4        |
| H332 | Harmful if inhaled                      | INHALATION - ACUTE TOXICITY             | 4        |
|      | <b>ENVIROMENTAL</b>                     |   |          |
|      | No data                                 |   |          |

LABEL ELEMENTS:SIGNAL WORD:**DANGER**PICTOGRAM:HAZARD STATEMENTS:**PHYSICAL**

H290 May be corrosive to metal.

**HEALTH**

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H302 Harmful if swallowed.

H332 Harmful if inhaled.

PRECAUTIONARY STATEMENTS:**GENERAL**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

**PREVENTION**

- P234 Keep only in original container.
- P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

**RESPONSE**

- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P321 Specific treatment: (see First Aid information on product label and/or Section 4 of the SDS).
- P303+P353+P361 IF ON SKIN (or hair): Rinse skin with water/shower. Take off immediately all contaminated clothing
- P363 Wash contaminated clothing before reuse.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P305+P351+P338 IF IN EYES: Rinse cautiously 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.
- P321 Specific treatment: (see First Aid information on product label and/or Section 4 of the SDS).
- P390 SPILLAGE: Absorb spillage to prevent material-damage.

**STORAGE**

- P405 Store locked up.
- P406 Store in corrosive resistant/container with a resistant inner liner.

**DISPOSAL**

- P501 Dispose of contents and container in accordance with applicable local, regional, and/or international regulations.

**OTHER HAZARDS NOT COVERED BY GHS:**

None identified.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**MIXTURE:

| <u>HAZARDOUS COMPONENT</u> | <u>%</u> | <u>CAS NUMBER</u> |
|----------------------------|----------|-------------------|
| Phosphoric acid            | 20       | 7664-38-2         |

**4. FIRST-AID MEASURES**DESCRIPTION OF NECESSARY FIRST AID MEASURES:

**INHALATION:** If inhalation of mists, vapors, or spray occurs and adverse effects result, remove person to uncontaminated area. Respiratory problems: consult a doctor/medical service.

**SKIN CONTACT:** Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry and shoes. Wash contaminated areas with large amounts of water. Thoroughly clean and dry contaminated clothing before reuse. Irritation persists: consult a doctor/medical service.

**EYE CONTACT:** Immediately flush contaminated eyes with a direct stream of water for as long as possible. Remove contact lenses, if present, then continue rinsing. Consult a doctor/medical service.

**INGESTION:** If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep airway clear. Monitor airway. Rinse mouth. Never give anything by mouth to an unconscious or convulsive person. GET MEDICAL ATTENTION IMMEDIATELY.

**Protection of First-Aiders:** Refer to Section 8 of SDS for specific personal protective equipment recommendations.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:ACUTE SYMPTOMS/EFFECTS:

**SKIN:** Exposure to skin may cause redness, burning of skin.

**EYE:** Serious damage of the eye tissue. Abnormal or excessive secretion of tears and burning sensation.

**INGESTION (Swallowing):** Exposure by ingestion may cause Nausea, abdominal pain, irritation of the gastric/intestinal mucosa.

DELAYED SYMPTOMS/EFFECTS:

No effects known.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

**Notes to Physician:** Medical observation and assessment is recommended for all ingestions, all eye exposures, and symptomatic inhalation and dermal exposures.

## 5. FIRE-FIGHTING MEASURES

### SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA:

Use extinguishing agents appropriate for surrounding fire.

May use water spray, foam or dry agent such as CO<sub>2</sub>

### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Non-combustible. Burning will emit toxic fumes, including CO<sub>2</sub>

### SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:

Move container from fire area if it can be done without risk. Cool containers with water. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode.

## 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Avoid contact with skin, eyes and clothing. Wear appropriate personal protective equipment recommended in section 8, Exposure Controls / Personal Protection, of the SDS.

### ENVIRONMENTAL PRECAUTIONS:

Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

In case of spill or leak, stop the leak as soon as possible. Small and large spills: Contain spilled material if possible. Completely contain spilled materials with dikes, sandbags, etc. After containment, consult federal, state, or local regulatory agencies (Sewer District) when appropriate. Liquid material may be removed with a vacuum truck. Area may be flushed with water as this is an aqueous cleaning compound. See Section 13, Disposal Considerations, of the SDS for additional information.

## 7. HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING:

Do not get into eyes, on skin or on clothing. Wash thoroughly after handling. When mixing, slowly add to water to minimize heat generation and spattering. Provide good ventilation. Do not inhale spray mist. Prevent formation of vapor.

### CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES:

Store and handle in accordance with all current regulations and standards. Keep in original container. Keep container tightly closed and properly labeled.

Incompatible with Alkaline, Bleach.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**CONTROL PARAMETERS:Occupational Exposure Limits:

Regulatory Exposure Limit(s):

| CHEMICAL NAME   | CAS NUMBER | ACGHIA  |
|-----------------|------------|---|
| Phosphoric Acid | 7664-38-2  | TWA 1 mg/m <sup>3</sup><br>STEL 3 mg/m <sup>3</sup> |

Non-Regulatory Exposure Limit(s):

The Non-Regulatory OSHA limits, if shown are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).

**OSHA:** Occupational Safety and Health Administration.**ACGIH:** The American Conference of Governmental Industrial Hygienists.**PEL:** Permissible Exposure Limit; **TWA:** Time Weighted Average; **STEL:** Short Term Exposure Limit;**TLV:** Threshold Limit Values;APPROPRIATE ENGINEERING CONTROLS:

Provide local exhaust ventilation where mist may be generated. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:**Eye Protection:** Wear chemical safety goggles with a face-shield to protect against eye and skin contact when appropriate. Provide an emergency eye wash fountain and a quick drench shower in the immediate work area.**Skin and Body Protection:** Wear protective clothing to minimize skin contact. Wear chemical resistant clothing and rubber boots when potential for contact with materials exist. Always place pants legs over boots. Contaminated clothing should be removed, then discarded or laundered.**Hand Protection:** Wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.**Respiratory Protection:** A NIOSH approved respirator with N95 dust/mist cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. If eye irritation occurs, a full face style mask should be used. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.**Protective material types:** Butyl rubber, Natural rubber, Nitrile, Polyvinyl chloride (PVC), Tyvek®

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|   |                             |
|---|-----------------------------|
| <u>APPEARANCE:</u>                              | LIQUID / YELLOW             |
| <u>ODOUR:</u>                                   | NON SPECIFIC SCENT          |
| <u>ODOUR THRESHOLD:</u>                         | NO DATA AVAILABLE           |
| <u>pH:</u>                                      | 2.0                         |
| <u>MELTING POINT:</u>                           | -6° C                       |
| <u>FREEZING POINT:</u>                          | -85 TO 39°F (-65 TO 4°C)    |
| <u>INITIAL BOILING POINT/RANGE:</u>             | 216 TO 289°F (102 TO 143°C) |
| <u>FLASH POINT:</u>                             | NOT FLAMMABLE               |
| <u>EVAPORATION RATE:</u>                        | NO DATA AVAILABLE           |
| <u>FLAMMABILITY (SOLID, GAS):</u>               | NOT FLAMMABLE               |
| <u>UPPER FLAMMABILITY OR EXPLOSIVE LIMITS:</u>  | NOT APPLICABLE              |
| <u>LOWER FLAMMABILITY OR EXPOSIVE LIMITS:</u>   | NOT APPLICABLE              |
| <u>VAPOUR PRESSURE:</u>                         | NON-VOLATILE                |
| <u>VAPOUR DENSITY:</u>                          | NON-VOLATILE                |
| <u>RELATIVE DENSITY:</u>                        | 1.2 (H <sub>2</sub> O = 1)  |
| <u>SOLUBILITY (water):</u>                      | 100%                        |
| <u>PARTITION COEFFICIENT (n-octanol/water):</u> | NOT APPLICABLE              |
| <u>AUTO-IGNITION TEMPERATURE:</u>               | NOT APPLICABLE              |
| <u>DECOMPOSITION TEMPERATURE:</u>               | NO DATA AVAILABLE           |
| <u>VISCOSITY:</u>                               | NO DATA AVAILABLE           |

**10. STABILITY AND REACTIVITY**REACTIVITY:

No data available

CHEMICAL STABILITY:

Stable at normal temperatures and pressures.

POSSIBILITY OF HAZARDOUS REACTIONS:

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

CONDITIONS TO AVOID:

Strong Alkaline. Metals other than stainless steel. Direct Sunlight. Extremely high or low temperatures.

INCOMPATIBLE MATERIALS:

Reacts violently with strong alkali's producing heat. Contact with many metals may result in severe corrosion attack of the metal and liberation of hydrogen gas. Strong acids. Strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS:

High temperatures will liberate phosphorus oxides. Fume. Carbon monoxide. Carbon dioxide.

**11. TOXICOLOGICAL INFORMATION:**LIKELY ROUTES OF EXPOSURE:

EYE CONTACT - Causes serious eye damage.

SKIN CONTACT – Causes severe skin burns.

DELAYED AND IMMEDIATE EFFECTS; SHORT AND LONG TERM:

Causes serious eye damage and skin burns.

COMPONENT INFORMATION:

| Chemical Name   | CAS Number | LD50 Oral   | LD50 Dermal | LC50 Inhalation | Species |
|-----------------|------------|-------------|-------------|-----------------|---------|
| Phosphoric Acid | 7664-38-2  | 1,530 mg/kg | 3,160 mg/kg |                 | Rat     |

**12. ECOLOGICAL INFORMATION**ECOTOXICITY:

This product is not expected to be hazardous to the environment.

PERSISTENCE AND DEGRADABILITY:

**Persistence:** No information available.

**Degradability:** No information available.

BIOACCUMULATIVE POTENTIAL:

No information available.

MOBILITY IN SOIL:

No information available.

OTHER ADVERSE EFFECTS:

No information available.

**13. DISPOSAL CONSIDERATIONS**

Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Disposal should be in accordance with regional, national and local laws and regulations.

Empty containers should be taken to an approved waste handling site for recycling or disposal.



**14. TRANSPORT INFORMATION****DOT PROPER SHIPPING NAME:**

Compounds, cleaning liquid. (Phosphoric acid)

**UN NUMBER:**

UN 1805

**CLASS:**

8

**PACKING GROUP:**

III

**PLACARD:**

RQ 1000 lbs.

**15. REGULATORY INFORMATION****US FEDERAL REGULATIONS:****SARA 313**

This product contains no known chemicals regulated under SARA 313.

**16. OTHER INFORMATION****HMIS RATINGS:**

HEALTH 2

FLAMMABILITY 0

PHYSICAL 0

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**Disclaimer:**

This Safety Data Sheet was prepared in accordance with 29 CFR 1910.1200. Information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication, it is the user's responsibility to determine the safety, toxicity and suitability for their own use of the product described herein. Since actual use by others is beyond our control, no guarantee expressed or implied is made by Oliver Chemical Company, Inc. as to the effects of such use, the results to be obtained or the safety and toxicity of the product nor does Oliver Chemical Company, Inc. assume any liability arising out of use by others of the product referred herein nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.