SAFETY DATA SHEET

OLIVER
CHEMICAL COMPANY, INC

TR 100

1. PRODUCT AND COMPANY IDENTIFICATION

GHS PRODUCT IDENTIFIER:	TR 100
OTHER MEANS OF IDENTIFICATION:	
Product Type	Cleaning mixture, Powder
Product Code	P-42
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

24 Hour Emergency Contact: CHEMTREC 1-800-424-9300

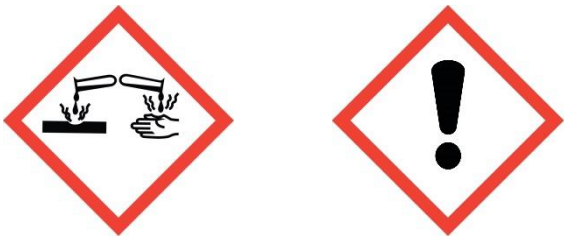
2. HAZARD IDENTIFICATION

GHS CLASSIFICATION OF THE SUBSTANCE/MIXTURE:

CODE	HAZARD SATATEMENT	HAZARD CLASS	CATEGORY
	PHYSICAL		
H290	May be corrosive to metals	Corrosive to metals	1
	HEALTH		
H314	Causes severe skin burns and eye damage	SKIN - CORROSION/IRRITATION	1B
H318	Causes serious eye damage	EYE - SERIOUS EYE DAMAGE/EYE IRRITATION	1
H302	Harmful if swallowed	ORAL - ACUTE TOXICITY	4
H370	Causes damage to: Gastrointestinal System, Respiratory System.	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	1
	ENVIROMENTAL		
H402	Harmful to aquatic life	AQUATIC ENVIROMENT-ACUTE HAZARD	3

LABEL ELEMENTS:

SIGNAL WORD: **DANGER**



HAZARD STATEMENTS:

PHYSICAL

H290 May be corrosive to metals.

HEALTH

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

PRECAUTIONARY STATEMENTS:

PREVENTION

P234 Keep only in original container.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
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

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 POISION CENTER or doctor/physician.
P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P363 Wash contaminated clothing before reuse.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

STORAGE

DISPOSAL

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

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE

HAZARDOUS COMPONENT	%	CAS NUMBER
Disodium trioxosilicate	8	10213-79-3
Sodium carbonate	30	497-19-8

4. FIRST-AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES:

INHALATION: If inhalation of dust, mists, vapors, or spray occurs and adverse effects result, remove to uncontaminated area. Evaluate ABC's (is Airway constricted, is Breathing occurring, and is blood Circulating) and treat symptomatically. GET MEDICAL ATTENTION IMMEDIATELY.

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.

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. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: If swallowed, rinse mouth, drink 1-2 glasses of water, do NOT induce vomiting. If vomiting occurs spontaneously, keep airway clear. Monitor airway. Never give anything by mouth to an unconscious or convulsive person. GET MEDICAL ATTENTION IMMEDIATELY.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Strongly alkaline. Causes burns.
Irritating to respiratory system.
May cause permanent damage to eyes.

ACUTE SYMPTOMS/EFFECTS:

INHALATION (Breathing): Respiratory System Effects: Exposure to airborne material may cause irritation, redness of upper and lower airways, coughing, laryngeal spasm and edema.
SKIN: Skin Corrosion. Exposure to skin may cause redness, itching, irritation, swelling.
EYE: Serious Eye Damage. Eye exposures may cause eye lid burns, conjunctivitis, corneal edema, corneal burn, corneal perforation, permanent damage to internal contents of the eye.
INGESTION (Swallowing): Gastrointestinal System Effects. Exposure by ingestion may cause irritation, swelling, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.

DELAYED SYMPTOMS/EFFECTS:

Repeated or prolonged exposures to skin that cause irritation may cause a chronic dermatitis.

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

Medical Conditions Aggravated by Exposure: Corrosive. May aggravate pre-existing eye, skin, and respiratory conditions (including asthma and other breathing disorders).
Protection of First-Aiders: Refer to Section 8 for specific personal protective equipment recommendations.

Notes to Physician: Medical observation and assessment is recommended for all ingestions, all eye exposures, and symptomatic inhalation and dermal exposures. For symptomatic ingestion, do not administer oral fluids and consider investigation by endoscopy, X-ray, or CT scan. Esophageal perforation, airway compromise, hypotension, and shock are possible. For prolonged exposures and significant exposures, consider delayed injury to exposed tissues. There is no antidote. Treatment is supportive care. Follow normal parameters for airways, breathing, and circulation. Surgical intervention may be required.

5. FIRE-FIGHTING MEASURES

SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA:

Use extinguishing agents appropriate for surrounding fire.

SPECIFIC HAZARDS:

Flash Point: N/A

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:

Move container from fire area if it can be done without risk. Cool containers with water. Do not apply water directly on this product. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Avoid contact with skin.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PERCAUTIONS, 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.

ENVIROMENTAL PRECAUTIONS:

Keep out of water supplies and sewers. This material is alkaline and may raise the pH of surface waters with low buffering capacity. 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, collect the spilled material and transfer to a chemical waste area. Liquid material may be removed with a vacuum truck. Neutralize residue with dilute acid. See Section 13, Disposal Considerations, of the SDS for additional information.

7. HANDLING AND STORAGE

PERCAUTIONS FOR SAFE HANDLING:

Avoid creation of dust, do not breath dust, vapor or mist. Do not get into eyes, on skin or on clothing. Eye wash facilities should be readily available. Wash thoroughly after handling. When mixing, slowly add to water to minimize heat generation and spattering.

CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES:

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

Incompatibilities / Materials to avoid Flammable liquids, acids, halogenated compounds, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS:

Occupational Exposure Limits:

Regulatory Exposure Limit(s):

CHEMICAL NAME	CAS NUMBER	OSHA Final PEL TWA
Disodium trioxosilicate	10213-79-3	3 mg/m^3

Non-Regulatory Exposure Limit(s):

CHEMICAL NAME	CAS NUMBER	ACGHIA
Disodium trioxosilicate	10213-79-3	10 mg/m^3

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;

ENGINEERING CONTROLS:

Provide local exhaust ventilation where dust or mist may be generated. Avoid raising dust. 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

APPEARANCE:	POWDER/WHITE w/slight browning
ODOUR:	ODORLESS
ODOUR THRESHOLD:	NO DATA AVAILABLE
pH:	13
MELTING POINT:	NO DATA AVAILABLE
FREEZING POINT:	NO DATA AVAILABLE
INITIAL BOILING POINT/RANGE:	NO DATA AVAILABLE
FLASH POINT:	NOT FLAMMABLE
EVAPORATION RATE:	NO DATA AVAILABLE
FLAMMABILITY (SOLID, GAS):	NOT FLAMMABLE
UPPER FLAMMABILITY OR EXPLOSIVE LIMITS:	NOT APPLICABLE
LOWWER FLAMMABILITY OR EXPOSIVE LIMITS:	NOT APPLICABLE
VAPOUR PRESSURE:	20 mmHg @ 77^0F (25^0C) 20% SOLUTION
VAPOUR DENSITY:	NO DATA AVAILABLE
RELATIVE DENSITY:	1
SOLUBILITY (water):	100%
PARTITION COEFFICIENT (n-octanol/water):	NOT APPLICABLE
AUTO-IGNITION TEMPERATURE:	NOT APPLICABLE
DECOMPOSITION TEMPERATURE:	NO DATA AVAILABLE
VISCOSITY:	NO DATA AVAILABLE

10. STABILITY AND REACTIVITY

REACTIVITY:

Soluble in water. Reacts with metals, and form hydrogen gas.

CHEMICAL STABILITY:

Stable at normal temperatures and pressures.

POSSIBILITY OF HAZARDOUS REACTIONS:

Mixing with acid or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.

CONDITIONS TO AVOID:

None known.

INCOMPATABLE MATERIALS:

Acids and halogenated compounds. Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys.

HAZARDOUS DECOMPOSITION PRODUCTS:

None known

11. TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:

INHALATION – Causes serious irritation, corrosive.
EYE CONTACT - Causes serious eye irritation, corrosive.
SKIN CONTACT – Severe irritation, corrosive.

DELAYED AND IMMEDIATE EFFECTS; SHORT AND LONG TERM:

This material may cause severe burns and permanent damage to any tissue with which it comes into contact. It causes serious burns and extensive tissue destruction resulting in liquefaction, necrosis and or perforation. Signs and symptoms of exposure vary, and are dependent on route of exposure, degree and duration of exposure.

COMPONENT INFORMATION:

Chemical Name	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation	Species
Disodium trioxosilicate	10213-79-3	1152 mg/kg	5000 mg/kg	2.06 mg/l	Rat

Chemical Name	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation	Species
Sodium carbonate	497-19-8	2,800 mg/kg	>2,000 mg/kg	2.30 mg/l	Rat

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Acute Toxicity	Parameter	Value	Duration	Species	Test Design
Fresh water fish	LC50	210 mg/l	96 hr	Brachydanio rerio	static bioassay
Invertebrate	EC50	1700 mg/l	48 hr	Daphnia magna	static bioassay
Algae	EC50	207 mg/l	72 hr	Selenastrum capicornutum	static bioassay

PERSISTENCE AND DEGRADABILITY:

Persistence: Inorganic. Soluble silicates, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.

Degradability: This material will disassociate into ionic form in the aquatic environment. Natural carbon dioxide will slowly neutralize this material.

BIOACCUMULATIVE POTENTIAL:

This material will not bio accumulate. This material is not expected to bio concentrate in organisms.

MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS:

This Material is alkaline and may raise the pH of surface waters with low buffering capacity.

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:

Disodium trioxosilicate, solid

UN NUMBER:

UN 3253

CLASS:

8

PACKING GROUP:

III

PLACECARD:

RQ 1000 lbs.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS:

SARA 313

This product contains no known chemicals regulated under SARA 313.

OSHA REGULATORY STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

16. OTHER INFORMATION

HMIS RATINGS:

HEALTH	2
FLAMMABILITY	0
PHYSICAL	0

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