Section 1: Identification

Product identifier

Product Name • **D1024 Biodegradable Cleaner Degreaser**

Product Code • 115

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Grease removal cleaner

Details of the supplier of the safety data sheet

Manufacturer • Tate Soaps & Surfactants, Inc.

1500 N. Webster St.
Kokomo, IN 46901
United States
www.tatesoaps.com

Telephone (General) • 765-868-4488

Emergency telephone number

Manufacturer • 800-424-9300 - CHEMTREC

Section 2: Hazard Identification

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

Health	Environmental	Physical
Acute Toxicity - Category 5 (oral) Eye Effects - Category 2B Skin Corrosion - Category 2	Aquatic Toxicity - Data unavailable	Flammable Liquid - Noncombustible

Label elements

OSHA HCS 2012

Symbols:

Hazard Statements:

Warning
May be harmful if swallowed.
Causes skin irritation and moderate eye irritation.

Precautionary Statements:

Prevention
Wash hands thoroughly after handling.
Do not eat, drink, or smoke when using this product.
Wear protective gloves and eye protection.
Response
If on skin: Take off immediately all contaminated clothing. Rinse skin with water.
If skin irritation occurs: Get medical attention.
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.

Other information – NFPA Rating

Section 3: Composition/ Information on Ingredients

Mixtures

Hazardous Components			
Chemical Name	**CAS**	**%(weight)**	**LD50/LC50**
Sodium Meta Silicate Pentahydrate	6834-92-0	<2%	Acute oral toxicity: Rat 847 mg/kg

Section 4: First-Aid Measures

Description of first aid measures

Inhalation
- N/A

Skin
- Wash with soap and water. Remove contaminated clothing. Wash before using.

Eye
- IF IN EYES: Wash with cool water for at least 15 minutes. Lift lids. Do not rub. Get medical attention immediately.

Ingestion
- Do NOT induce vomiting. Dilute by drinking milk or water. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media
- Water spray, water fog

Unsuitable Extinguishing Media
- Avoid the use of streaming water, as this may spread the fire.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- None. Noncombustible.

Hazardous Combustion Products	• NDA
Advice for firefighters	• Structural firefighters' protective clothing will only provide limited protection. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk. Use water spray to cool containers exposed to fire.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions	• Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Emergency Procedures	• As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

Environmental precautions

• Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures	• Small spills may be flushed with plenty of water down sewage drain. Large spills should be absorbed with absorbents (fuller earth type) and placed in containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling

Handling	• Avoid damage to container in handling.

Conditions for safe storage, including any incompatibilities

Storage	• Store at room temperature. Keep from freezing.
Incompatible Materials or Ignition Sources	• Keep away from heat, ignition sources oxidizers and strong acids.

Section 8: Exposure Controls/Personal Protection Control Parameters

Exposure Limits/Guidelines				
	Result	**DFG MAKs**	**OSHA**	**NIOSH**
Sodium Meta Silicate Pentahydrate (6834-92-0)	TWAs	4 mg/m3 (Inhalable fraction) 1.5 mg/m3 (Respirable fraction)	15 mg/m3 (Total dust) 5 mg/m3 (Respirable fraction)	No data available

Exposure controls

Engineering Measures/Controls
- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values.

Personal Protective Equipment

Pictograms

- **Respiratory** – None under normal use
- **Eye/Face** – Wear safety goggles or face shields
- **Hands** – Wear protective gloves –neoprene or nitrile gloves.
- **Skin/Body** – None under normal use

General Industrial Hygiene Considerations
- Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

Environmental Exposure Controls
- Follow best practice for site management and disposal of waste. Avoid release to the environment.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
NIOSH = National Institute of Occupational Safety and Health
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
OSHA = Occupational Safety and Health Administration

Section 9: Physical and Chemical Properties

Information on Physical and Chemical Properties

Appearance/Description	Odorless clear green liquid		
Odor	Odorless	**Odor Threshold**	NDA
Boiling Point	214.3 °F	**Melting Point**	Not applicable
pH	12.87	**Specific Gravity/Relative @ 20°C**	1.012 Water = 1
Density	1.012 g/cc	**Solubility**	Completely soluble in water
Vapor Pressure @ 22°C	8.8 mmHg	**Vapor Density@ 20°C**	Highest known = 2.1
Evaporation Rate	1 n-butyl = 1	**Flammability**	Not applicable
Flash Point	Not applicable	**Flammability Limits**	Not applicable
Partition Coefficient	NDA	**Auto-ignition Temperature**	Not applicable
Decomposition Temperature	NDA	**Viscosity**	NDA

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Keep from freezing

Incompatible materials

- Strong acids, strong oxidizing agents

Hazardous decomposition products

- Carbon dioxide, carbon monoxide, nitrogen dioxide, nitrogen monoxide

Section 11: Toxicological Information

Information on toxicological effects

Component Name	CAS	Data
Sodium Meta Silicate Pentahydrate	6834-92-0	**Acute Toxicity:** Acute oral toxicity: Rat 847 mg/kg **Irritation:** Moderate eye irritation and mild skin irritation **Reproductive:** No data available

GHS Properties	Classification
Acute toxicity	**OSHA HCS 2012** • Acute Toxicity - Category 5 (oral)
Aspiration Hazard	**OSHA HCS 2012** • Classification criteria not met
Carcinogenicity	**OSHA HCS 2012** • Classification criteria not met
Germ Cell Mutagenicity	**OSHA HCS 2012** • Classification criteria not me
Respiratory sensitization	**OSHA HCS 2012** • Classification criteria not met
Serious eye damage/Irritation	**OSHA HCS 2012** • Eye Effects - Category 2B
Skin corrosion/Irritation	**OSHA HCS 2012** • Skin Corrosion - Category 2
Skin sensitization	**OSHA HCS 2012** • Classification criteria not met
STOT-RE	**OSHA HCS 2012** • Classification criteria not met
STOT-SE	**OSHA HCS 2012** • Classification criteria not met
Toxicity for Reproduction	**OSHA HCS 2012** • Classification criteria not met

Target Organs • No data available

Route(s) of entry/exposure • Inhalation, Skin, Eye, Ingestion

Potential Health Effects

Inhalation

Acute (Immediate) • Not applicable.

Chronic (Delayed) • Not applicable.

Skin

Acute (Immediate) • Causes skin irritation.

Chronic (Delayed) • May be harmful if absorbed through skin.

Eye

Acute (Immediate) • Causes eye irritation.

Chronic (Delayed) • No data available.

Ingestion

Acute (Immediate) • Harmful if swallowed. Will cause gastrointestinal problems if ingested.

Chronic (Delayed) • No data available

Section 12: Ecological Information

Toxicity

- NDA.

Persistence and degradability

- NDA.

Bioaccumulative potential

- NDA.

Mobility in Soil

- NDA.

Other adverse effects

- No studies have been found.

Other Information

- No data is available on the adverse effects of this material on the environment. Aquatic toxicity values are expected to be in the range of 1 - 10 mg/l based upon data from components and similar products.

Section 13: Disposal Considerations

Waste treatment methods

Product waste
- Waste of this product is NOT considered hazardous. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations

Packaging waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NONE
TDG	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NONE
IMO/IMDG	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NONE
IATA/ICAO	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NONE

Special precautions for user
- None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- This product is provided only in non-bulk containers.

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

- This product contains no chemicals which are listed or ranked by the Hazard Ranking System revised under SARA Title III

U.S. Federal Regulations

- TSCA (Toxic Substance Control Act):
  - All functional components of this product are listed on the TSCA Inventory.

- CERCLA (Comprehensive Response Compensation, and Liability Act):
  - This product contains no chemicals which are regulated under CERCLA.

- SARA TITLE III (Superfund Amendments and Reauthorization Act):
  - This product contains no chemicals which are listed or ranked by the Hazard Ranking System revised under SARA Title III

- 311/312 Hazard Categories:
  - This product is not reportable under sections 311 / 312

- 313 Reportable Ingredients:
  - This product contains no chemicals which are regulated under Section 313 or 304.

State Regulations

- California:
  - This product contains no chemicals which are regulated by the State of California Proposition 65.

Section 16: Other Information

Last Revision Date	• 05/11/2016
Preparation Date	• 06/01/2015
Disclaimer/Statement of Liability	• The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance the need that information is current, applicable and suited to the circumstances of use. Korkay Cleaning Products assumes no responsibility for injury to vendee or third party person proximity caused by the material if reasonable safety procedures are no adhered to as stipulated in the data sheet. Furthermore, Korkay Cleaning Products assumes no responsibility for injury by abnormal use of this material even if reasonable safety procedures are followed.

Key to abbreviations

NDA = No data available.