

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	TA-1618BL Kosher
Manufacturer	The Procter & Gamble Company Procter & Gamble Chemicals Sharon Woods Innovation Center 11530 Reed Hartman Highway Cincinnati, Ohio 45241 1-800-477-8899 or 1-513-626-6882 PGChemMSDS.IM@pg.com CHEMTREC: 1-800-424-9300 U.S. and Canada CHEMTREC: 1-703-527-3887 For calls originating elsewhere
Version #	02
Revision date	04-30-2010
CAS #	Mixture
MSDS Number	ALCH486
Product Code	99360248
Synonym(s)	Cetyl and stearyl alcohol mixture

2. Hazards Identification

Emergency overview	Potential combustible dust if flaked or powdered. Dust generated from flaked product will be combustible at sufficient concentration.
OSHA regulatory status	This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Eyes	May cause temporary eye irritation.
Skin	May cause skin irritation.
Inhalation	No harmful effects expected with normal use. Dust may irritate respiratory system.
Ingestion	May cause gastrointestinal irritation.
Specific hazards	Potential combustible dust if flaked or powdered. Dust generated from flaked product will be combustible at sufficient concentration.

3. Composition / Information on Ingredients

Components	CAS #	Percent
1-HEXADECANOL	36653-82-4	23-33
1-OCTADECANOL	112-92-5	65-77

4. First Aid Measures

First aid procedures	
Eye contact	Get medical attention if irritation persists after washing.
Skin contact	Wash off with soap and water. Remove and isolate contaminated clothing and shoes. Wash clothing separately before reuse.
Inhalation	Avoid breathing dust.
Ingestion	If swallowed, especially in large quantities: Get medical attention.

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria. Not combustible by OSHA criteria.
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Extinguishing media

Suitable extinguishing media Foam. Dry chemical powder. Carbon dioxide (CO₂).

Protection of firefighters

Specific hazards arising from the chemical Potential combustible dust if flaked or powdered. Dust generated from flaked product will be combustible at sufficient concentration.
Does not decompose up to 400° F (204° C).
Complete combustion forms carbon dioxide and water vapor. Partial combustion forms also carbon monoxide, soot, aldehydes and ketones.

Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective clothing.

Specific methods In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

6. Accidental Release Measures

Personal precautions Self-contained breathing apparatus.

Environmental precautions Minimize contamination of drains, surface and ground waters.

Methods for containment Ventilate the area. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Contain spill. Neutralization not required. Collect spillage with granulates, sawdust, rags or other absorbent. Dispose as any grease or oily material in compliance with Federal, State, and/or Local requirements.

Methods for cleaning up Ventilate the area. Eliminate ignition sources including sources of electrical, static or frictional sparks. Contain spill. Neutralization not required.

7. Handling and Storage

Handling Handle in accordance with good industrial hygiene and safety practice.
Avoid contact with eyes, skin, and clothing.
Avoid heat, sparks, open flames and other ignition sources.
Wash thoroughly after handling.
Empty containers contain product residue and can be dangerous, follow all hazard warnings and precautions even after container is emptied.

Storage Keep away from heat, sparks and open flame.
Store in a closed container away from incompatible materials.
Store in cool, dry place.
Store in most common storage vessels including stainless steel, zinc-type spray-on linings, flaked polyester lining.

8. Exposure Controls / Personal Protection

Engineering controls Local ventilation should be provided.
Mechanical ventilation may be required.

Personal protective equipment

Eye / face protection Not normally needed.
It is a good industrial hygiene practice to minimize eye contact.

Skin protection Protective gloves should be worn when handling heated molten product.
No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.
It is a good industrial hygiene practice to minimize skin contact.
Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Respiratory protection Not normally needed.
Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance Solid. Flakes. Powder.

Color White.

Odor Mild. Soapy.

Odor threshold Not available.

Physical state	Solid.
Form	Solid.
pH	Not available.
Melting point	122 °F (50 °C) typical
Freezing point	Not available.
Boiling point	> 480 °F (> 248.9 °C) @ 760 mm Hg (101.3kPa)
Flash point	310 °F (154.4 °C) Pensky-Martens Closed Cup
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	<1 mm Hg @ 72 F (22° C)
Vapor density	Not available.
Specific gravity	Not available.
Relative density	Not available.
Solubility (water)	Negligible at 72 F (22 C)
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
VOC	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	Does not decompose up to 400 F. Complete combustion forms carbon dioxide and water vapor. Partial combustion forms also carbon monoxide, soot, aldehydes and ketones.
Hazardous polymerization	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product

TA-1618BL Kosher (Mixture)

Test Results

Dermal Rabbit: 24.00 hours Closed patch study with undiluted product produced mild primary irritation.

Rabbit: No eye irritation from instillation of undiluted product.

Acute Dermal LD50 Rat: 5 g/kg of body weight

Impurities

1-TETRADECANOL (112-72-1)

Test Results

Dermal Human: 75 mg 3.00 days -I MOD (Irritation Data)

Other MLD Rabbit: 500 mg Eye Irritation

Acute Dermal LD50 Rabbit: > 5 g/kg

Acute Oral LD50 Rat: > 5 g/kg

12. Ecological Information

Ecotoxicological data

Product

TA-1618BL Kosher (Mixture)

Test Results

Bluegill (Lepomis macrochirus): 520 mg/l No observed effect level.

LC50 Bluegill (Lepomis macrochirus): > 1000 mg/l 96.00 hours

Components

1-OCTADECANOL (112-92-5)

Test Results

LC50 Bluegill (Lepomis macrochirus): >= 1000 mg/l 96.00 hours

Components

1-HEXADECANOL (36653-82-4)

Test Results

Fathead minnow (*Pimephales promelas*): > 500 mg/l 5.00 days
Berger, 1958

LC50 Bluegill (*Lepomis macrochirus*): > 1000 mg/l 96.00 hours

Ecotoxicity

1-HEXADECANOL (36653-82-4) Mobility:

Mass Distribution by Environmental Compartment via Fugacity Level III Model:

Air: 0.762% Water: 8.75% Soil: 29.9% Sediment: 60.6%

PERSISTENCE AND DEGRADABILITY:

Bioaccumulative Potential:

LogKow 6.65 Burkhard et al., 1985

LogKow 6.73 SRC

BCF 56 Freitag et al., 1982

1-OCTADECANOL (112-92-5) Mobility:

Mass Distribution by Environmental Compartment via Fugacity Level III Model:

Air: 0.63% Water: 7.35% Soil: 28.7% Sediment: 63.3%

PERSISTENCE AND DEGRADABILITY:

Bioaccumulative Potential:

Log Kow 7.19 Burkhard et al 1985

Log Kow 7.72% SRC

BCF 100,000 OECD SIDS

1-TETRADECANOL (112-72-1): Mobility:

Mass Distribution by Environmental Compartment via Fugacity Level III Model

Air: 1.16% Water: 13.2% Soil: 36.7% Sediment: 48.9%

PERSISTENCE AND DEGRADABILITY:

Bioaccumulative Potential:

LogKow 6.03 Burkhard et al., 1985

LogKow 5.75 SRC

13. Disposal Considerations

Disposal instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Do not dispose of via sinks, drains or into the immediate environment.

14. Transport Information

DOT

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Contains no California Prop 65 chemicals.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Contains no Pennsylvania Right To Know hazardous substances

16. Other Information

HMIS® ratings Health: 0
Flammability: 1
Physical hazard: 0

NFPA ratings Health: 0
Flammability: 1
Instability: 0

Bibliography Berger, B.B., 1958. Use of hexadecanol in reservoir evaporation reduction. J. American Water Works Assn., pp. 855-858.

Burkhard, L.P., Kuehl, D.W., and Veith, G.D. 1985. Evaluation of reverse phase liquid chromatography/mass spectrometry for estimation of N-octanol/water partition coefficients for organic chemicals. Chemosphere 14(10):1551-1560.

Freitag, D., Geyer, H., Kraus, A., Viswanathan, R., Kotzias, D., Attar, A., Klein, W., and Korte, F. 1982. Ecotoxicological profile analysis VII. Screening chemicals for their environmental behavior by comparative evaluation. Ecotoxicol. Environ. Safety 6:60-81.

Syracuse Research Corporation (SRC) Online Database.

OECD SIDS Dossier on 1-Octadecanol. 1993. Environmental Protection Agency, Denmark. 6 June 1993. RTECS ACCESSION NUMBER XB8655000 - 1-Tetradecanol

Disclaimer The submission of the MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied are for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific product designated herein, and does not relate to use in combination with any other material of any other process. Procter & Gamble assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the controlled product.

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04-30-2010

This data sheet contains changes from the previous version in section(s):

This document has undergone significant changes and should be reviewed in its entirety.