P&G Chemicals
Delivering solutions, creating value

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name **CO-1214LC10 AB**

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 # 01

Revision date 10-11-2010

CAS # Mixture

MSDS Number ALCH514

Synonym(s) Lauryl/Myristyl Alcohol

2. Hazards Identification

OSHA regulatory status This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Not available.

Potential environmental effects May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
1-TETRADECANOL	112-72-1	21-28
1-DODECANOL	112-53-8	65 min

Impurities	CAS #	Percent
1-HEXADECANOL	36653-82-4	< 8

4. First Aid Measures

First aid procedures

Eye contact Rinse with water. Get medical attention if irritation develops or persists.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops or persists.

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

5. Fire Fighting Measures

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

Extinguishing media

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

Special protective equipment for fire-fighters	Wear suitable protective equipment.
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	Keep unnecessary personnel away.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
Methods for cleaning up	Should not be released into the environment. Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.
Storage	Keep away from heat, sparks and open flame.

8. Exposure Controls / Personal Protection

Personal protective equipment

Eye / face protection	Not normally needed.
Skin protection	No special protective equipment required.
Respiratory protection	No personal respiratory protective equipment normally required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Liquid.
Color	Water white.
Odor	Fresh, Waxy.
Odor threshold	Not available.
Physical state	Liquid.
Form	Not available.
pH	Not available.
Melting point	70 °F (21.1 °C)
Freezing point	Not available.
Boiling point	> 350 °F (> 176.7 °C) at 760 mm Hg (101.3kPa)
Flash point	> 235 °F (> 112.8 °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	< 10 mm Hg @ 72 F (22 C)
Vapor density	Not available.
Specific gravity	0.82 at 35/22 C
Relative density	Not available.
Solubility (water)	Negligible @ 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	**Test Results**
CO-1214LC10 AB (Mixture)	Other MLD Rabbit: 2041 mg estimated
	Acute Dermal LD50 Rabbit: 20.41 g/kg estimated
	Acute Oral LD50 Rabbit: 55.38 ml/kg estimated
	Acute Oral LD50 Rat: >= 20.5 g/kg of body weight; Based on compositionally similar product

Components	**Test Results**
1-DODECANOL (112-53-8)	Dermal Human: 75 mg 3D-I SEV
	Acute Oral LD50 Rabbit: > 36 ml/kg
1-TETRADECANOL (112-72-1)	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

Impurities	**Test Results**
1-HEXADECANOL (36653-82-4)	Acute Oral LD50 Mouse: 3200 mg/kg
	Acute Oral LD50 Rat: 5 g/kg

Chronic effects	Not available.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Skin corrosion/irritation	Not available.
Epidemiology	Not available.
Neurological effects	Not available.

12. Ecological Information

Ecotoxicological data

Product	**Test Results**
CO-1214LC10 AB (Mixture)	EC50 Daphnia: 247 mg/l 48.00 hours estimated
	LC50 Bluegill (Lepomis macrochirus): 894.5 mg/l 96.00 hours Alkyl Range: C12-14
	LC50 Fathead minnow (Pimephales promelas): 1.01 mg/l 96.00 hours 1-Dodecanol (112-53-8)
	LC50 Trout family (Salmonidae): >= 1 mg/l 96.00 hours Tetradecanol (112-72-1)

Components	**Test Results**
1-DODECANOL (112-53-8)	EC10 Green algae (Scenedesmus subspicatus): 0.73 mg/l 72.00 hours (1)
	EC50 Bacterium (Pseudomonas putida): > 100 (>LoS) * OECD SIDS

Components	Test Results
1-DODECANOL (112-53-8)	EC50 Green algae (Scenedesmus subspicatus): 0.97 mg/l 72.00 hours (1)
	EC50 Rotifer (Brachionus calyciflorus): 0.72 mg/l 48.00 hours Versteeg et al 1997.
	EC50 Water flea (Daphnia magna): 48.00 hours 0.77 mg/l (n) *
	EC50 Water flea (Daphnia magna): 320 mg/l 48.00 hours (>LoS) * OECD SIDS
	LC50 Fathead minnow (Pimephales promelas): 96.00 hours 1.01 mg/L (m) *
	LC50 Harpacticoid copepod (Nitocra spinipes): 21 mg/l 96.00 hours Bengtsson et al1984.
	LC50 Harpacticoid copepod (Nitocra spinipes): 0.9 mg/l 96.00 hours Linden et al 1979.
	NOEC Green algae (Scenedesmus subspicatus): 0.3 mg/l 72.00 hours (1)
	NOEC Water flea (Daphnia magna): 1 mg/l 21.00 day OECD SIDS

Impurities	Test Results
1-HEXADECANOL (36653-82-4)	Fathead minnow (Pimephales promelas): > 500 mg/l 5.00 days Berger, 1958
	LC50 Bluegill (Lepomis macrochirus): > 1000 mg/l 96.00 hours

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. Disposal Considerations

Disposal instructions This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). 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. Dispose in accordance with all applicable regulations.

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 - Yes
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

Further information HMIS® is a registered trade and service mark of the NPCA.

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

NFPA ratings
Health: 1
Flammability: 1
Instability: 0

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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