# SAFETY DATA SHEET

## 1. Identification

**Product identifier LDD Liquid Dish Detergent** 

Other means of identification

**Product code** F2105

Recommended use Liquid Dish Detergent

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Franklin Cleaning Technology Company name

One Fuller Way **Address** 

Great Bend, KS 67530

**United States** 

Telephone **Customer Service** (800) 810-4829

E-mail Not available.

**Emergency phone number** CHEMTREC (800) 424-9300

> Emergency (620) 792-1711 24 hour Emergency (800) 424-9300

2. Hazard(s) identification

Flammable liquids Category 4 **Physical hazards Health hazards** Serious eve damage/eve irritation Category 2A Category 2

**Environmental hazards** Hazardous to the aquatic environment, acute

Hazardous to the aquatic environment, Category 2

long-term hazard

Not classified. **OSHA** defined hazards

Label elements



Signal word

Combustible liquid. Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life. Toxic **Hazard statement** 

to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention Keep away from flames and hot surfaces-No smoking. Wash thoroughly after handling. Avoid

release to the environment. Wear protective gloves/eye protection/face protection.

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Response

Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to

extinguish. Collect spillage.

Storage Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Hazard(s) not otherwise

classified (HNOC)

None known.

F2105 Version #: 05 Revision date: 10-18-2017 Issue date: 03-13-2015

Supplemental information 2.85% of the mixture consists of component(s) of unknown acute oral toxicity. 27.55% of the

mixture consists of component(s) of unknown acute dermal toxicity. 3.85% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 3.85% of the mixture

consists of component(s) of unknown long-term hazards to the aquatic environment.

Material name: LDD Liquid Dish Detergent

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
SODIUM DODECYLBENZENE SULFONATE		25155-30-0	17.5
SODIUM LAURETH SULFATE		9004-82-4	5.9
ALCOHOL DENATURED		64-17-5	1.3
ISOPROPYL ALCOHOL		67-63-0	1
ALCOHOLS, C12-15, ETHOXYLATED		68131-39-5	0.3
Other components below reportable le	evels		74.0107

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

**Eve contact** Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

vision. Skin irritation. May cause redness and pain.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

Water fog. Foam, Dry chemical powder, Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Combustible liquid.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch or walk through spilled material. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

#### Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA	Table Z-1 Limits for Air	Contaminants	(29 CFR 1910.1000)

Components	Туре	Value	
ALCOHOL DENATURED (CAS 64-17-5)	PEL	1900 mg/m3	
,		1000 ppm	
ISOPROPYL ALCOHOL (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
ALCOHOL DENATURED (CAS 64-17-5)	STEL	1000 ppm	
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
ALCOHOL DENATURED (CAS 64-17-5)	TWA	1900 mg/m3	
,		1000 ppm	
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	1225 mg/m3	
·		500 ppm	
	TWA	980 mg/m3	
		400 ppm	

## **Biological limit values**

ACGIH Biological Exposure Indices				
Components	Value	Determinant	Specimen	Sampling Time
ISOPROPYL ALCOHOL (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

## Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

#### Individual protection measures, such as personal protective equipment

Face shield is recommended. Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Wear protective gloves. Hand protection

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Material name: LDD Liquid Dish Detergent

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

Appearance Viscous Liquid

Physical stateLiquid.FormLiquid.ColorClear Blue

Odor Matches to Standard

Odor threshold Not available.

**pH** 7 - 8

Melting point/freezing point Not available.

Initial boiling point and boiling 212 °F (100 °C)

range

Flash point 145.4 °F (63.0 °C)

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.00001 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Density** 8.70 lbs/gal estimated

**Explosive properties** Not explosive.

Flammability class Combustible IIIA estimated

Oxidizing properties Not oxidizing.

Percent volatile 71.39 % estimated

Pounds per gallon 8.7

**Specific gravity** 0.98 estimated **VOC** 2 % estimated

#### 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Material name: LDD Liquid Dish Detergent

SDS US

Possibility of hazardous

reactions

**Product** 

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

**Species** 

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

**Test Results** 

vision. Skin irritation. May cause redness and pain.

## Information on toxicological effects

Acute toxicity Not known.

LDD Liquid Dish Detergen	nt	
<u>Acute</u>		
Oral		
LD50	Rabbit	504 g/kg estimated
	Rat	222 g/kg estimated
Other		
LD50	Mouse	14670 mg/kg estimated
	Rat	49083 mg/kg estimated
Components	Species	Test Results

#### ALCOHOL DENATURED (CAS 64-17-5)

<u>Acute</u>	
Inhalation	

050

LC50 Mouse 39 mg/l, 4 Hours

Rat 20000 ppm, 10 Hours

Oral

LD50 Mouse 3450 mg/kg
Rat 6.2 g/kg

Other

LD50 Mouse 933 mg/kg
Rat 1440 mg/kg

#### ISOPROPYL ALCOHOL (CAS 67-63-0)

Acute Oral

LD50 Rat 4.7 g/kg

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

## Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Material name: LDD Liquid Dish Detergent

SDS US

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** Possible reproductive hazard.

Specific target organ toxicity -

single exposure

Product

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Spacias

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

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LDD Liquid Dish Dete	rgent		
Aquatic			
Crustacea	EC50	Daphnia	12.2753 mg/l, 48 hours estimated
Fish	LC50	Fish	33.0893 mg/l, 96 hours estimated
Components		Species	Test Results
AL COLICE DENIATUE	SED (040 04 47 5)		

ALCOHOL DENATURED (CAS 64-17-5)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia magna) 7.7 - 11.2 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

ALCOHOL DENATURED -0.31
ISOPROPYL ALCOHOL 0.05
SODIUM DODECYLBENZENE SULFONATE 0.45

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

Toot Populto

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Local disposal regulations**Dispose in accordance with all applicable regulations.

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

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

disposal.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

Material name: LDD Liquid Dish Detergent sps us

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

General information IMDG Regulated Marine Pollutant.

## 15. Regulatory information

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200. All components are listed or exempted from listing on the U.S. EPA

TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

ALCOHOL DENATURED (CAS 64-17-5)

ISOPROPYL ALCOHOL (CAS 67-63-0)

SODIUM DODECYLBENZENE SULFONATE (CAS

Listed.

Listed.

25155-30-0)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No (Exempt)

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

ALCOHOL DENATURED (CAS 64-17-5) Low priority ISOPROPYL ALCOHOL (CAS 67-63-0) Low priority

**US state regulations** 

California Proposition 65

WARNING: California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For

more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3,

subd. (a))

ISOPROPYL ALCOHOL (CAS 67-63-0)

**International Inventories** 

Country(s) or region Inventory name On inventory (yes/no)\*

Australia Australian Inventory of Chemical Substances (AICS) No
Canada Domestic Substances List (DSL) No

Canada Non-Domestic Substances List (NDSL)

No

Country(s) or region	inventory name	On inventory (yes/no)
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No

Philippine Inventory of Chemicals and Chemical Substances (PICCS)

Inventory name

Taiwan Taiwan Toxic Chemical Substances (TCS) No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

# 16. Other information, including date of preparation or last revision

Issue date 03-13-2015 10-18-2017 **Revision date** 

Version # 05

Country(s) or region

Philippines

The information provided in this Safety Data Sheet is correct to the best of our knowledge, Disclaimer

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

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

Material name: LDD Liquid Dish Detergent

8/8

F2105 Version #: 05 Revision date: 10-18-2017 Issue date: 03-13-2015

On inventory (vec/ne)\*

No

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).