Safety Data Sheet

Document Group:	32-8544-2	**Version Number:**	1.00
Issue Date:	11/27/13	**Supercedes Date:**	Initial Issue

SECTION 1: Identification

1.1. Product identifier
DISHWASHING LIQUID SOFT

1.2. Recommended use and restrictions on use

Recommended use
Dishwashing liquid, Dishwashing liquid

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	3M United Arab Emirates Home Care Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number
1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification
Serious Eye Damage/Irritation: Category 1.
Skin Corrosion/Irritation: Category 2.

2.2. Label elements
Signal word
Danger

Symbols
Corrosion |

Pictograms

Hazard Statements
Causes serious eye damage.
Causes skin irritation.

Precautionary Statements
General:
Keep out of reach of children.
If medical advice is needed, have product container or label at hand.

Prevention:
Wear protective gloves and eye/face protection.
Wash thoroughly after handling.

Response:
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 or doctor/physician.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

2.3. Hazards not otherwise classified
None.

13% of the mixture consists of ingredients of unknown acute oral toxicity.
13% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
WATER	7732-18-5	55 - 65
DODECYLBENZENESULFONIC ACID	Trade Secret*	15 - 25
SODIUM LAURYLPOLYETHOXYETHANOL SULFATE	Trade Secret*	5 - 10
COCOAMIDOPROPYLBETAINE	Trade Secret*	3 - 7
Sodium Cumene Sulphonate	Trade Secret*	1 - 5
SODIUM HYDROXIDE	Trade Secret*	1 - 5
GLYCERIN	Trade Secret*	0.5 - 1.5

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:
Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

5.3. Special protective actions for fire-fighters
No unusual fire or explosion hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions
Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities
No special storage requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
GLYCERIN	Trade Secret	US Dept of Labor - OSHA	TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3	
SODIUM HYDROXIDE	Trade Secret	Amer Conf of Gov. Indust. Hyg.	CEIL:2 mg/m3	
SODIUM HYDROXIDE	Trade Secret	Chemical Manufacturer Rec Guid	TWA:2 mg/m3	
SODIUM HYDROXIDE	Trade Secret	US Dept of Labor - OSHA	TWA:2 mg/m3	

Amer Conf of Gov. Indust. Hyg. : American Conference of Governmental Industrial Hygienists
American Indust. Hygiene Assoc : American Industrial Hygiene Association
Chemical Manufacturer Rec Guid : Chemical Manufacturer's Recommended Guidelines
US Dept of Labor - OSHA : United States Department of Labor - Occupational Safety and Health Administration
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Indirect Vented Goggles

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.
Gloves made from the following material(s) are recommended: Nitrile Rubber

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form:	Liquid
Odor, Color, Grade:	Pink color
Odor threshold	*No Data Available*
pH	5 - 9
Melting point	*No Data Available*
Boiling Point	*No Data Available*

Flash Point	*No Data Available*
Evaporation rate	*No Data Available*
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Vapor Pressure	*No Data Available*
Vapor Density	*No Data Available*
Density	*No Data Available*
Specific Gravity	*No Data Available*
Solubility In Water	*No Data Available*
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Viscosity	*No Data Available*
Percent volatile	*No Data Available*

SECTION 10: Stability and reactivity

10.1. Reactivity
This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products

Substance	Condition
Hydrocarbons	Not Specified
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:
May be harmful in contact with skin.
Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Eye Contact:
Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion:
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Toxicological Data

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		Data not available or insufficient for classification; calculated ATE 4,657.6 mg/kg
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE > 5,000 mg/kg
DODECYLBENZENESULFONIC ACID	Dermal		LD50 estimated to be 1,000 - 2,000 mg/kg
DODECYLBENZENESULFONIC ACID	Ingestion	Rat	LD50 1,700 mg/kg
SODIUM LAURYLPOLYETHOXYETHANOL SULFATE			Data not available or insufficient for classification
COCOAMIDOPROPYLBETAINE	Dermal	Rat	LD50 > 2,000 mg/kg
COCOAMIDOPROPYLBETAINE	Ingestion	Rat	LD50 > 1,500 mg/kg
SODIUM HYDROXIDE			Data not available or insufficient for classification
Sodium Cumene Sulphonate			Data not available or insufficient for classification
GLYCERIN	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
GLYCERIN	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
DODECYLBENZENESULFONIC ACID		Data not available or insufficient for classification
SODIUM LAURYLPOLYETHOXYETHANOL SULFATE		Data not available or insufficient for classification
COCOAMIDOPROPYLBETAINE	Rabbit	Mild irritant
SODIUM HYDROXIDE	Rabbit	Corrosive
Sodium Cumene Sulphonate		Data not available or insufficient for classification
GLYCERIN	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
DODECYLBENZENESULFONIC ACID		Data not available or insufficient for classification
SODIUM LAURYLPOLYETHOXYETHANOL SULFATE		Data not available or insufficient for classification
COCOAMIDOPROPYLBETAINE	Rabbit	Corrosive
SODIUM HYDROXIDE	Rabbit	Corrosive
Sodium Cumene Sulphonate		Data not available or insufficient for classification
GLYCERIN	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value

DODECYLBENZENESULFONIC ACID		Data not available or insufficient for classification
SODIUM LAURYLPOLYETHOXYETHANOL SULFATE		Data not available or insufficient for classification
COCOAMIDOPROPYLBETAINE	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
SODIUM HYDROXIDE	Human	Not sensitizing
Sodium Cumene Sulphonate		Data not available or insufficient for classification
GLYCERIN	Guinea pig	Not sensitizing

Respiratory Sensitization

Name	Species	Value
DODECYLBENZENESULFONIC ACID		Data not available or insufficient for classification
SODIUM LAURYLPOLYETHOXYETHANOL SULFATE		Data not available or insufficient for classification
COCOAMIDOPROPYLBETAINE		Data not available or insufficient for classification
SODIUM HYDROXIDE		Data not available or insufficient for classification
Sodium Cumene Sulphonate		Data not available or insufficient for classification
GLYCERIN		Data not available or insufficient for classification

Germ Cell Mutagenicity

Name	Route	Value
DODECYLBENZENESULFONIC ACID		Data not available or insufficient for classification
SODIUM LAURYLPOLYETHOXYETHANOL SULFATE		Data not available or insufficient for classification
COCOAMIDOPROPYLBETAINE	In Vitro	Not mutagenic
COCOAMIDOPROPYLBETAINE	In vivo	Not mutagenic
SODIUM HYDROXIDE	In Vitro	Not mutagenic
Sodium Cumene Sulphonate		Data not available or insufficient for classification
GLYCERIN		Data not available or insufficient for classification

Carcinogenicity

Name	Route	Species	Value
DODECYLBENZENESULFONIC ACID			Data not available or insufficient for classification
SODIUM LAURYLPOLYETHOXYETHANOL SULFATE			Data not available or insufficient for classification
COCOAMIDOPROPYLBETAINE			Data not available or insufficient for classification
SODIUM HYDROXIDE			Data not available or insufficient for classification
Sodium Cumene Sulphonate			Data not available or insufficient for classification
GLYCERIN	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
DODECYLBENZENESULFONIC ACID		Data not available or insufficient for classification			
SODIUM LAURYLPOLYETHOXYETHANOL SULFATE		Data not available or insufficient for classification			
COCOAMIDOPROPYLBETAINE	Ingestion	Not toxic to female reproduction	Rat	NOAEL 1,000 mg/kg/day	92 days
COCOAMIDOPROPYLBETAINE	Ingestion	Not toxic to male reproduction	Rat	NOAEL 1,000 mg/kg/day	92 days
SODIUM HYDROXIDE		Data not available or insufficient for classification			
Sodium Cumene Sulphonate		Data not available or insufficient for classification			
GLYCERIN	Ingestion	Not toxic to female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
GLYCERIN	Ingestion	Not toxic to male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation

GLYCERIN	Ingestion	Not toxic to development	Rat	NOAEL 2,000 mg/kg/day	2 generation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
DODECYLBENZENESULFONIC ACID			Data not available or insufficient for classification			
SODIUM LAURYLPOLYETHOXYETHANOL SULFATE			Data not available or insufficient for classification			
COCOAMIDOPROPYLBETAINE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
SODIUM HYDROXIDE	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	
Sodium Cumene Sulphonate			Data not available or insufficient for classification			
GLYCERIN			Data not available or insufficient for classification			

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
DODECYLBENZENESULFONIC ACID			Data not available or insufficient for classification			
SODIUM LAURYLPOLYETHOXYETHANOL SULFATE			Data not available or insufficient for classification			
COCOAMIDOPROPYLBETAINE	Ingestion	heart | endocrine system | hematopoietic system | liver | nervous system | eyes | kidney and/or bladder	All data are negative	Rat	NOAEL 1,000 mg/kg/day	92 days
SODIUM HYDROXIDE			Data not available or insufficient for classification			
Sodium Cumene Sulphonate			Data not available or insufficient for classification			
GLYCERIN	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 3.91 mg/l	14 days
GLYCERIN	Inhalation	heart | liver | kidney and/or bladder	All data are negative	Rat	NOAEL 3.91 mg/l	14 days
GLYCERIN	Ingestion	endocrine system | hematopoietic system | liver | kidney and/or bladder	All data are negative	Rat	NOAEL 10,000 mg/kg/day	2 years

Aspiration Hazard

Name	Value
DODECYLBENZENESULFONIC ACID	Not an aspiration hazard
SODIUM LAURYLPOLYETHOXYETHANOL SULFATE	Not an aspiration hazard
COCOAMIDOPROPYLBETAINE	Not an aspiration hazard
SODIUM HYDROXIDE	Not an aspiration hazard
Sodium Cumene Sulphonate	Not an aspiration hazard
GLYCERIN	Not an aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

For Transport Information, please visit **http://3M.com/Transportinfo** or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Document Group:	32-8544-2	**Version Number:**	1.00
Issue Date:	11/27/13	**Supercedes Date:**	Initial Issue

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