# **Material Safety Data Sheet**

Revision Date 27-Jul-2012 Version 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** 2x Liquid Laundry Detergent

**Recommended Use** Laundry liquid for clothes washing machines.

**Chemical Emergency Phone** 

Number

Chemtrec 1-800-424-9300 (24 hour) Poison Control 1-800-222-1222 (24 hour)

# 2. HAZARDS IDENTIFICATION

# **CAUTION!**

### **Emergency Overview**

Harmful if swallowed May cause eye irritation Keep out of the reach of children May cause central nervous system depression

### **Potential Health Effects**

See Section 11 for additional Toxicological information.

May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, Ingestion

vomiting and diarrhea. Do not taste or swallow.

Irritating to eyes. May cause redness, itching, and pain. **Eyes** 

Substance may cause slight skin irritation. Prolonged or repeated contact may dry skin and Skin

cause irritation.

May be harmful if inhaled. May cause irritation of respiratory tract. Inhalation

**Chronic Effects** No known effect based on information supplied.

Aggravated Medical Conditions Central nervous system. Preexisting eye disorders. Skin disorders. Respiratory disorders.

**Environmental hazard** See Section 12 for additional Ecological Information.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients as defined by the OSHA Hazard Communication Standard (29CFR § 1910.1200).

| Chemical Name   | CAS-No     |
|---|------------|
| ALCOHOLS, C12-16, ETHOXYLATED                                   | 68551-12-2 |
| BENZENESULFONIC ACID, C10-16-ALKYL<br>DERIVATIVES, SODIUM SALTS | 68081-81-2 |
| Propylene Glycol  | 57-55-6    |
| Ethanolamine  | 141-43-5   |
| DISODIUM DISTYRYLBIPHENYL DISULFONATE                           | 27344-41-8 |

Under normal consumer household use, this product would not constitute a hazardous product by OSHA definition as OSHA is not applicable to household consumer use.

# 4. FIRST AID MEASURES

General advice If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do

not get in eyes, on skin, or on clothing.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

**Skin contact**Consult a physician if necessary. Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes.

**Inhalation** Move to fresh air. Consult a physician. If breathing is irregular or stopped, administer

artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation.

Ingestion Rinse mouth. Drink plenty of water. Do not induce vomiting without medical advice. Call a

physician or Poison Control Center immediately.

Notes to physician Treat symptomatically.

**Protection of First-aiders**Use personal protective equipment.

## 5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

Flash point  $> 201 \, ^{\circ}\text{F} \, / > 94 \, ^{\circ}\text{C}$ 

Flammability Limits in Air

Upper Flammability LimitNo information availableLower Flammability LimitNo information available

Autoignition temperature No information available

Hazardous Combustion Products None.

**Explosive properties**No information available

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**Explosion Limits** 

Upper (UEL)No information availableLower (LEL)No information available

surrounding environment.

Unsuitable Extinguishing Media None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

NFPA Health Hazard 2 Flammability 1 Stability 0 Physical and chemical

hazards -

HMIS Health Hazard 2 Flammability 1 Physical Hazard 0 Personal protection -

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation.

**Environmental precautions**Try to prevent the material from entering drains or water courses.

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

Other information not applicable.

### 7. HANDLING AND STORAGE

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Technical measures/Storage

conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Exposure Guidelines**

| Chemical Name                        | ACGIH TLV                 | OSHA PEL                                  | NIOSH IDLH                             |  |
|--------------------------------------|---------------------------|---|--|--|
| Ethanolamine                         | STEL: 6 ppm               | TWA: 3 ppm                                | IDLH: 30 ppm                           |  |
| 141-43-5                             | TWA: 3 ppm                | TWA: 6 mg/m <sup>3</sup>                  | TWA: 3 ppm                             |  |
|                                      |                           |   | TWA: 8 mg/m <sup>3</sup>               |  |
|                                      |                           | (vacated) TWA: 8 mg/m <sup>3</sup>        | STEL: 6 ppm                            |  |
|                                      |                           | (vacated) STEL: 6 ppm                     | STEL: 15 mg/m <sup>3</sup>             |  |
|                                      |                           | (vacated) STEL: 15 mg/m <sup>3</sup>      |  |  |
| Subtilisin Ceiling: 0.00006 mg/m³ as |                           | (vacated) STEL: 0.00006 mg/m <sup>3</sup> | STEL: 0.00006 mg/m <sup>3</sup> 60 min |  |
| 9014-01-1                            | crystalline active enzyme | 60 min                                    | Subtilisins                            |  |

NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Engineering Measures None under normal use conditions

**Personal Protective Equipment** 

**Eye/Face Protection**No protective equipment is needed under normal use conditions **Skin and body protection**No protective equipment is needed under normal use conditions.

no data available

no data available

no data available

no data available No data available

> 201 °F / > 94 °C

No information available

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Remove and wash contaminated clothing before re-use. Hygiene measures

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Flash point

**Freezing Point** 

Vapor density

**Evaporation rate** 

**Autoignition temperature** 

Boiling point/boiling range

Physical state LIQUID liquid Appearance blue **ORIGINAL** Color Odor 7.6

**Odor Threshold** No information available рΗ **Specific Gravity** 1.02 SPECIFIC GRAVITY -Density

25C

Viscosity, kinematic 160 cps

Method No information available

**Decomposition temperature Melting** point Water solubility

Vapor pressure no data available

**VOC Content(%)** not applicable

Flammability Limits in Air **Explosion Limits** 

no data available

no data available

Soluble in water

**Upper Flammability Limit** no data available no data available Upper (UEL) **Lower Flammability Limit** no data available no data available Lower (LEL)

### 10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible products Strong oxidizing agents, strong acids, and strong bases.

**Conditions to Avoid** Extremes of temperature and direct sunlight. Do not freeze.

Hazardous Decomposition Products None known based on information supplied.

**Hazardous Reactions** None known based on information supplied.

**Hazardous Polymerization** Hazardous polymerization does not occur.

# 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Ingestion Harmful if swallowed. Do not taste or swallow. Ingestion may cause gastrointestinal

irritation, nausea, vomiting and diarrhea.

Eye contact Irritating to eyes. Avoid contact with eyes.

Skin contact Causes skin irritation. Prolonged contact may cause redness and irritation. Prolonged or

repeated contact may dry skin and cause irritation.

Inhalation May cause irritation of respiratory tract.

**Product Safety Profile** Product is safe for its intended use based on the formulation, testing results, and the long

history of safe consumer use.

LD50 Oral: > 2000 mg/kg (rat) LD50 Dermal: > 2000 mg/kg

| Chemical Name  | LD50 Oral          | LD50 Dermal                             | LC50 Inhalation       |
|--|--------------------|---|-----------------------|
| ALCOHOLS, C12-16,<br>ETHOXYLATED                                   | 1700 mg/kg ( Rat ) | 2501 mg/kg ( Rat )                      | 11.1 mg/L ( Rat ) 4 h |
| BENZENESULFONIC ACID,<br>C10-16-ALKYL DERIVATIVES,<br>SODIUM SALTS | 1000 mg/kg ( Rat ) | 730 mg/kg ( Rabbit )                    |                       |
| Propylene Glycol   | 20000 mg/kg (Rat)  | 20800 mg/kg ( Rabbit )                  |                       |
| Ethanolamine   | 1720 mg/kg (Rat)   | 1 mL/kg(Rabbit)1025 mg/kg(<br>Rabbit)   |                       |
| DISODIUM DISTYRYLBIPHENYL<br>DISULFONATE                           | 2000 mg/kg(Rat)    | 2500 mg/kg ( Rabbit ) 1 g/kg ( Rat<br>) | 3.6 mg/L (Rat)4 h     |

# Chronic toxicity

**Chronic toxicity** No known effect based on information supplied. May produce an allergic reaction.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Sensitization None known.

Germ Cell Mutagenicity None known.

Reproductive toxicity

This product does not contain any known or suspected reproductive hazards

Developmental Toxicity None known

Target Organ Effects Central nervous system, Eyes, Respiratory system, Skin

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated

| Chemical Name                               | Toxicity to algae   | Toxicity to fish   | Toxicity to  | Toxicity to daphnia and   |
|---|---|--|--|---|
| Propylene Glycol                            | 19000: 96 h<br>Pseudokirchneriella<br>subcapitata mg/L EC50   | 51600: 96 h Oncorhynchus<br>mykiss mg/L LC50 static 41 -<br>47: 96 h Oncorhynchus<br>mykiss mL/L LC50 static<br>51400: 96 h Pimephales<br>promelas mg/L LC50 static<br>710: 96 h Pimephales<br>promelas mg/L LC50  | microorganisms   | other aquatic invertebrates 10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static |
| Ethanolamine                                | 15: 72 h Desmodesmus<br>subspicatus mg/L EC50   | 227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through | EC50 = 110 mg/L 17 h<br>EC50 = 12200 mg/L 2 h<br>EC50 = 13.7 mg/L 30 min | 65: 48 h Daphnia magna<br>mg/L EC50   |
| DISODIUM<br>DISTYRYLBIPHENYL<br>DISULFONATE | 10: 72 h Desmodesmus<br>subspicatus mg/L EC50 10.0<br>- 11.0: 96 h Desmodesmus<br>subspicatus mg/L EC50 | 76: 96 h Brachydanio rerio<br>mg/L LC50 static   |  | 1000: 48 h Daphnia magna<br>mg/L EC50   |

Persistence and degradability No data is available on the product itself.

**Bioaccumulation** Not likely to bioaccumulate.

Mobility Not Determined .

| Chemical Name | log Pow |
|---------------|---------|
| Ethanolamine  | -1.91   |

### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40

CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements

Contaminated packaging Do not re-use empty containers

#### **California Waste Status**

This product contains one or more substances that are listed with the State of California as a hazardous waste.

#### 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

IATA Not regulated

IMDG Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies DSL Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

# **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

| Acute Health Hazard               | Yes |
|-----------------------------------|-----|
| Chronic Health Hazard             | no  |
| Fire Hazard                       | no  |
| Sudden Release of Pressure Hazard | no  |
| Reactive Hazard                   | no  |

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#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

| Chemical Name    | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|------------------|---------------|------------|--------------|----------|--------------|
| Propylene Glycol |               | X          | Х            |          |              |
| Ethanolamine     | X             | Х          | Х            | Х        |              |

#### Mexico

| Chemical Name | Carcinogen Status | Exposure Limits                   |
|---------------|-------------------|-----------------------------------|
| Ethanolamine  |                   | Mexico: TWA 3 ppm                 |
|               |                   | Mexico: TWA 8 mg/m <sup>3</sup>   |
|               |                   | Mexico: STEL 6 ppm                |
|               |                   | Mexico: STEL 15 mg/m <sup>3</sup> |

# Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### **WHMIS Hazard Class**

D2A Very toxic materials D2B Toxic materials



#### Legend

NPRI - National Pollutant Release Inventory

### **16. OTHER INFORMATION**

Prepared By KS Distribution, LLC

Revision Date 27-Jul-2012
Revision Note no data available.
Status 0

PROTYP F30

Disclaimer

The (M)SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by KS Distribution, LLC to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

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**End of Material Safety Data Sheet** 

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