SAFETY DATA SHEET

Product name: Liquid Duv

Revision Date: 09/02/15

Safety Data Sheet
May be used to comply with OSHA’s Hazard Communication Standard, 29 CFR 1910.1200. standard must be consulted for specific requirements.

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration (Non-Mandatory Form) Forms Approved OMB NO. 12118-0072

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Liquid Duv

Recommended use of the chemical: Fabric Softener. We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

Company Identification:
Monaghan Corp.
2017 Dean Avenue
Des Moines, Iowa 50317
United States of America

Customer information number: 515-266-2120
Emergency phone number: Chemtrec 800-424-9300 CC14908

SECTION II – HAZARDS IDENTIFICATION

GHS Classification
Eye irritation – Category 2
Mild skin irritation – Category 3

GHS label elements
hazard pictograms/symbols

Signal word: Warning

Hazard statement:
H320: Causes eye irritation.
H316: Causes mild skin irritation.
H303: May be harmful if swallowed.

Precautionary Statements:
Prevention:
P262: Do not get in eyes, on skin, or on clothing.
P264: Wash all exposed external body areas thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P381: Eliminate all ignition sources if safe to do so.

Response:
P305+P351+P338: If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352: IF ON SKIN: Wash with plenty of water and soap.

Storage:
P404: Store in a closed container.
P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:
P501: Dispose of contents/container to be specified in accordance with regulation
SECTION III – INFORMATION OF INGREDIENTS

IF PRESENT IARC, NTP AND OSHA CARCINOGENS AND CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>CAS#</th>
<th>PEL</th>
<th>TLV</th>
</tr>
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<tbody>
<tr>
<td>DIMETHYL AMMONIUM CHLORIDE</td>
<td>68410-69-5</td>
<td>None</td>
<td>None</td>
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SECTION IV – FIRST AID AND MEASURES

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin Contact: Wash skin with plenty of water.

Eye Contact: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Skin contact may aggravate preexisting dermatitis.

SECTION V – FIRE FIGHTING MEASURES

Flash Point: 117 °F (47 °C) – Pensky Martin Closed Cup

Upper & Lower: Not determined

Extinguishing Media: Dry chemical, foam, carbon dioxide or water fog.

Fire Fighting Equipment & Instructions: Firefighters should wear full protective clothing including self-contained breathing apparatus. Cool fire exposed containers with spray.

Hazardous Combustion Products: Irritating and toxic gases or fumes may be released during a fire.

Unusual Fire Explosion Hazards: Explosive mixtures can form with air. Combustion products are toxic. Solvent vapors can travel to an ignition source and flash back.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Emergency Action: Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas where vapors may accumulate. Eliminated all ignition sources. Ventilate closed spaces before entering. All equipment used when handling the product must be grounded. Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors. Prevent entry into waterways sewers, basements or confirmed areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.

Large Spills: Dike far ahead of liquid spills for later disposal. Water spray may reduce vapor but will increase foaming. Water may not prevent ignition in closed spaces.

SECTION VII – HANDLING AND STORAGE

Handling Procedures: Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.

Storage Procedures: Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Do not handle or store near an flame, heat or other sources of ignition. Prevent electrostatic charge buildup by using common bonding and grounding techniques.
SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.

Color: Pink

Odor: Lemon odor

pH: 6-8

Flash Point: 117 °F (47 °C) Pensky Martin Closed Cup

Specific Gravity: .96 (8 lbs./gal)

Percent Volatiles: 50% (weight %)

Evaporation Rate: Not determined

Pour point: Not determined

Viscosity: 50 cps @ 25°C

Vapor Density: Estimated to be heavier than air

VOC Content: 10%

Vapor Pressure: ~ 44 mm Hg at 68 °F

SECTION X – STABILITY AND REACTIVITY

Chemical stability: Material is stable.

Possibility of hazardous reactions: Polymerization will not occur.

Conditions to Avoid: Keep away from heat and strong oxidizing agents.

Incompatible Materials: Strong oxidizing agents (may result in fire) reducing agents.

Hazardous decomposition products: Carbon monoxide, carbon dioxide and toxic hydrogen chloride vapors

SECTION XI – TOXICOLOGICAL INFORMATION

Carcinogenicity: No Carcinogenicity data available for this product.

Acute Oral LD50: 880 mg/kg for male and female combined.

Acute Dermal: Greater than 2000 mg/kg

Primary skin: Severe irritant

Primary eye: Severe irritant

SECTION XII – ECOLOGICAL INFORMATION

Environmental Fate: This product is biodegradable.

SECTION XIII – DISPOSAL CONSIDERATIONS

This substance, when discarded or disposed of is a characteristic hazardous waste according to Federal regulation (40 CFR 261) and is assigned the EPA Hazardous Waste Number of D001. The discarding or disposal of this material must be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263m 264, and 268. Additionally, the discarding or disposal or this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate.

The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, State, and local regulations.
SECTION XIV– TRANSPORT INFORMATION

DOT Non-Bulk: NOT REGULATED
DOT Bulk: NOT REGULATED
IMDG: NOT REGULATED
ICAO/IATA: NOT REGULATED

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION XV– REGULATORY INFORMATION

While all ingredients are listed on the TSCA Chemical Inventory, this product is regulated as a pesticide under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and not subject to the TSCA Inventory rules for FIFRA uses.

Other Chemical Inventories
All components of this product are listed on the following inventories: Canada (DLS), European Union, China, Korean and Philippines.

CERCLA/SARA
SARA Title, Sections 311/312 – this act requires reporting under the Community Right To Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370: Classification of this product: immediate, Fire.

SARA Title 313 – this act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

Reportable quantities/ Threshold Planning Quantities: CERCLA requires notification of the National Response Center (telephone 1-800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the reportable quantities (RQ's) SARA 302/304 requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQ) and/or release of Reportable Quantities.

WHMIS Classification: B3, E. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

SECTION XVI– OTHER INFORMATION

Hazard Rating System

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<th>NFPA</th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
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<tbody>
<tr>
<td>1</td>
<td>0</td>
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THE INFORMATION ON THIS SAFETY DATA SHEET IS BELIEVED TO BE ACCURATE AND IT IS THE BEST INFORMATION AVAILABLE TO NORCHEM CORPORATION. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONS FOR HANDLING A CHEMICAL BY A PERSON TRAINED IN CHEMICAL HANDLING. NORCHEM CORPORATION MAKES NO WARRANTY OF MERCHANT ABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO SUCH INFORMATION OF THE PRODUCT TO WHICH THIS SAFETY DATA SHEET RELATES. USERS AND HANDLERS OF THIS PRODUCT SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION PROVIDED HEREIN FOR THEIR OWN PURPOSES.