

SAFETY DATA SHEET

F-JS-091/092

Liquid Auto Wash

SECTION 1 – Identification

PRODUCT IDENTITY: Liquid Auto Wash

PRODUCT NUMBER: F-JS-091/092

CORNHUSKER STATE INDUSTRIES
800 PIONEERS BLVD
LINCOLN, NEBRASKA 68502
PHONE: 800-348-7537 or 402-471-4597

Emergency Phone Number
CHEMTREC
1-800-424-9300

Recommended Use: Vehicle cleaning detergent.

Restrictions on Use: For industrial use only.

SECTION 2 – Hazard(s) Identification

Physical Hazards: Not classified

Health Hazards: Acute Toxicity, Oral	Category 4
Skin corrosion/irritation:	Category 2
Serious eye damage/eye irritation:	Category 1
Carcinogenicity	Category 2

Environmental hazards: Hazardous to the aquatic environment, acute hazard	Category 2
Hazardous to the aquatic environment, long-term hazard	Category 3

OSHA defined hazards: Not classified.

Label Elements



Signal Word: Danger

Hazard statement: Causes skin irritation. Causes serious eye damage. Suspected of causing cancer. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Response: **If on skin:** Wash with plenty of water.
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/doctor.
Specific treatment (see this label).
If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
If swallowed: Call a poison center/doctor if you feel unwell.

Storage: Store locked up.

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

Hazard(s) not otherwise classified (HNOC): None known.

Supplemental information: Not applicable.

SECTION 3 – Composition/Information on Ingredients

Mixtures		
Chemical name	CAS number	% by weight
Alkanolamide blend	Confidential	5.7-5.9
Diethanolamine	111-42-2	1.2-1.4
2-Propanol	67-63-0	2.6
Tetrasodium ethylenediamine tetracetate	64-02-8	0.5
Triethanolamine dodecylbenzene sulfonate	27323-41-7	1.9-2.2
Trisodium Phosphate Dodecahydrate	10101-89-0	2.0

SECTION 4 – First-Aid Measures

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

Skin Contact: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects acute & delayed: Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin Irritation. May cause redness and pain.

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: If exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5 – Firefighting Measures

Suitable Extinguishing Media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media: None Known.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment & precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Specific Methods: Cool containers exposed to flames with water until well after the fire is out.

General fire hazards: No unusual fire or explosion hazards noted.

SECTION 6 – Accidental Release Measures

Personal precautions, protective equipment & emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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:

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Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: 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. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

SECTION 7 – HANDLING & STORAGE

Precautions for safe handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get this material in contact with eyes. Avoid contact with skin. Avoid

Conditions for safe storage, including any incompatibilities: Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS)

SECTION 8 – Exposure Controls/Personal Protection

Occupational Exposure Limits

US. ACGIH Threshold Limit Values

Components	CAS Number	Type	Value	Form
Diethanolamine	111-42-2	TWA	1 mg/m ³	Inhalable fraction and vapor.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	CAS Number	Type	Value
Diethanolamine	111-42-2	TWA	15 mg/m ³ 3 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines Occupational Exposure Limits are not relevant to the current physical form of the product.

US – California OELs: Skin designation

Diethanolamine (CAS 111-42-2) Can be absorbed through skin

US ACGIH Threshold Limit Values: Skin designation

Diethanolamine (CAS 111-42-2) Can be absorbed through skin

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as a personal protective equipment

Eye/face protection: Wear safety glasses with side shield (or goggles) and a face shield.

Hand protection: Wear appropriate chemical resistant gloves.

Skin protection: Wear appropriate chemical resistant clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Other Protection: Wear appropriate chemical resistant clothing.

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

General hygiene considerations: 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.

SECTION 9 – Physical and Chemical Properties

Appearance: Not available
Physical State: Liquid
Form: Liquid
Color: Amber
Odor: Not available
Odor Threshold: Not available
pH: 9.0000 @ 1% Aqueous
Melting point/freezing point: 23 °F (-5 °C)
Boiling point: >212 °F (>100 °C)
Flash point: >201 °F (>93.9 °C) Pinsky-Martens
Closed Cup
Evaporation rate: Estimated slower than ethyl ether.
Flammability (solid/gas): Not available

Upper/lower flammability or explosive limits
Flammability limit – lower (%): Not available
Flammability limit – upper (%): Not available
Vapor pressure: Not determined or unknown.
Vapor density: Estimated heavier than air.
Solubility(ies)
Solubility (Water): Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available
Other Information
Density: 8.35 lbs/gal (@23C)
Percent Volatile: 85-86%
Pour Point: Not available

SECTION 10 – Stability & Reactivity

Reactivity: The product is stable and non-reactive under normal conditions if use, storage and transport.
Chemical stability: Material is stable under normal conditions.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to Avoid: Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials: Strong acids.
Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11 – TOXICOLICAL Information

Information on likely routes of exposure

Eye contact: Causes serious eye damage.

Skin Contact: Causes skin irritation.

Ingestion: Expected to be a low ingestion hazard.

Inhalation: No adverse effects due to inhalation are expected.

Symptoms related to the physical, chemical and toxicological characteristics: Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity: Not available.

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not available.

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.

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Carcinogenicity Suspected of causing cancer.
IARC Monographs. Overall Evaluation of Carcinogenicity
Dethanolamine (CAS 111-42-2) 2B Possibly carcinogenic to humans.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity (single exposure) Not applicable.

Specific target organ toxicity (repeated exposure) Not applicable.

Aspiration hazard Prolonged exposure may cause chronic effects.

SECTION 12 – ECOLOGICAL INFORMATION

N/A

SECTION 13 – DISPOSAL CONSIDERATIONS

N/A

SECTION 14 – TRANSPORT INFORMATION

N/A

SECTION 15 – REGULATORY INFORMATION

N/A

SECTION 16 – OTHER INFORMATION

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Disclaimer: The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release.