SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

MANUFACTURER: Griffin Bros., Inc.
P.O. Box 7719
Salem, OR 97303
INFORMATION PHONE: (800) 456-4743

PRODUCT NAME: JOLT
PRODUCT NUMBER: G-301
DATE PREPARED: 02/19/2015
LAST REVISION: 09/02/2015

For Medical and Chemical Emergencies CHEMTREC 1-800-424-9300

2. HAZARDOUS IDENTIFICATION:

EMERGENCY OVERVIEW: Corrosive
GHS CLASSIFICATION: Mild Skin Irritation: (Category 3) Eye Irritation: (Category 2B) Acute Toxicity Oral: (Category 5)

GHS Label elements, including precautionary statements
SIGNAL WORD: Warning
PICTOGRAM: No GHS Symbol Required

HAZARD STATEMENT(S):
H303: May be harmful if swallowed
H316: Causes mild skin irritation
H320: Causes eye irritation

PRECAUTIONARY STATEMENT(S):
P262 Do not get in eyes, on skin, or on clothing.
P280: Wear protective gloves /eye protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305 +P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.
P337+P313: IF eye irritation persists: Get medical advice/attention.

POTENTIAL HEALTH EFFECTS
EYE CONTACT: Can cause eye irritation
INHALATION: May be irritating to the nose, throat, and respiratory tract.
INGESTION: Swallowing the liquid can be irritating to the gastrointestinal tract.
SKIN CONTACT: Causes mild skin irritation.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation, pain, coughing, redness of skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Range Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310732</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>2-BUTOXY ETHANOL</td>
<td>111762</td>
<td>3 – 6 %</td>
</tr>
<tr>
<td>ETHANOLAMINE</td>
<td>141435</td>
<td>1 – 2 %</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES:

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes. Hold eyelids open while flushing the eyes. Get medical attention.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
INGESTION: If swallowed, dilute with water and get medical attention. Never give anything by mouth to an unconscious or convulsing person.
SKIN CONTACT: Wash with soap and water. Change contaminated clothing. Get medical attention if irritation develops or persists.
AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin or respiratory conditions. Repeated overexposure may cause kidney and liver exposure.
SUPPLEMENTAL HEALTH INFORMATION: The effects of long-term, low-level exposure to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Water fog, dry chemical foam or carbon dioxide. Use extinguishing media appropriate for surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and a NIOSH-approved self-contained breathing apparatus with full face piece operated in a pressure positive mode.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.
COMBUSTION PRODUCTS: N/A
6. ACCIDENTAL RELEASE MEASURES:
STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Small spills: Mop up, wipe up or soak up immediately. Remove to out of doors. Large spills: Evacuate area. Contain liquid; transfer to closed poly containers. Keep out of water supply.

7. HANDLING AND STORAGE:
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Protect from freezing. Follow all SDS/label precautions even after container is emptied because it may retain product residues.
OTHER PRECAUTIONS: For industrial use only. Keep away from children. Keep containers closed while not in use.

8. EXPOSURE CONTROL/PERSONAL PROTECTION:

**EXPOSURE GUIDELINES:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>ACGIH STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>2 mg/m³</td>
<td>2 mg/M³</td>
<td>6 ppm (15 mg/M³)</td>
</tr>
<tr>
<td>2-BUTOXY ETHANOL</td>
<td>25 ppm(121 mg/M³)(SKIN)</td>
<td>3 ppm (7.5 mg/M³)</td>
<td></td>
</tr>
<tr>
<td>ETHANOLAMINE</td>
<td>3 ppm (6 mg/M³)</td>
<td>3 ppm (7.5 mg/M³)</td>
<td>6 ppm (15 mg/M³)</td>
</tr>
</tbody>
</table>

**PERSONAL PROTECTIVE EQUIPMENT**

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA approved respirator appropriate for vapor concentration at point of use.

VENTILATION: Local exhaust sufficient to keep exposure below TLV.

WORK/HYGENIC PRACTICES: When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

EYE PROTECTION: Use chemical safety goggles and/or full face shield when splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

PROTECTIVE GLOVES: Rubber or other impervious material with gauntlets. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product.

OTHER PROTECTIVE EQUIP: Boots, apron, lab coat or coveralls of impervious material, as appropriate to avoid skin contact.

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eye wash facility and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES:

**INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:**

- **a) Appearance:** Clear Red Liquid
- **b) Odor:** Glycol ether odor
- **c) pH:** 12 +/- 0.5
- **d) Melting point/freezing point:** Not data available.
- **e) Initial boiling point and boiling range:** 198 deg F
- **f) Initial boiling point and boiling range:** Not data available.
- **g) Flash point:** Not applicable
- **h) Evaporation rate:** Not applicable
- **i) Vapor pressure:** No data available.
- **j) Upper/lower flammability or explosive limits:** Not applicable
- **k) Vapor density:** No data available.
- **l) Relative density:** 1.04
- **m) Water solubility:** Complete
- **n) Water solubility:** Not applicable
- **o) Auto-ignition temperature:** Not applicable
- **p) Viscosity:** No data available.
- **q) Pounds Per Gallon:** 8.6

10. STABILITY AND REACTIVITY:

STABLE: Stable

INCOMPATIBILITY: Strong acidic and strong oxidizing compounds

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: None Known

11. TOXICOLOGICAL INFORMATION:

No data available

12. ECOLOGICAL INFORMATION:

No data available

13. DISPOSAL CONSIDERATIONS:

Dispose of container, product or waste in accordance with Local, State and, Federal regulations.

14. TRANSPORT INFORMATION:

<table>
<thead>
<tr>
<th>Regulation</th>
<th>UN No.</th>
<th>Proper Shipping Name</th>
<th>Transport Hazard Class(es)</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT</td>
<td>n/a</td>
<td>Non-Regulated Material, Liquid</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>ERG No.</td>
<td>154</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION:

No data available.

16. OTHER INFORMATION:

HMIS INFORMATION:
- HEALTH: 1
- FLAMMABILITY: 0
- PHYSICAL HAZARD: 0
- PROTECTIVE: B

NFPA INFORMATION:
- TOXICITY: 1
- FIRE: 0
- REACTIVITY: 0
- SPECIAL: C

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