FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER:
TRADE NAME: FORFEIT® 280

1.2 RECOMMENDED USE:
GROUP 10 HERBICIDE FOR POST EMERGENCE BROADCAST USE ON LISTED CROPS

1.3 SUPPLIER DETAILS:
LOVELAND PRODUCTS, INC.
P.O. Box 1286 • Greeley, CO 80632-1286

U.S. Coast Guard National Response Center: 1-800-424-8802

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to 29 CFR 1910.1200
Eye Damage/Irritation Category 2B H320
STOT-SE Category 2 H371
STOT-RE Category 2 H373

2.2 Label elements

Signal word: WARNING
Hazard Statement: H320 – Causes eye irritation.
H371 – May cause damage to organs.
H373 – May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement: P264 – Wash hands and face thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.

Precautionary Statement: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 – If eye irritation persists: Get medical advice/attention.
(Response): P308+P311 – If exposed or concerned: Call a POISON CENTER or doctor/physician/
P314 – Get medical advice/attention if you feel unwell.

Precautionary Statement: (Storage): P405 – Store locked up.

Precautionary Statement: (Disposal): P501 – Dispose of contents/container in accordance with local, state, regional and national regulations.

2.3 Other hazards not otherwise classified
None known.
3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Classification according to 29 CFR 1910.1200

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Classification</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glufosinate-ammonium</td>
<td>77182-82-2</td>
<td>Eye dam/irrit 2B; H320</td>
<td>24.50</td>
</tr>
<tr>
<td>Proprietary blend of surfactants</td>
<td>Mixture</td>
<td>STOT-SE, 2; H371; STOT-RE, 2; H373</td>
<td>51.00</td>
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<tr>
<td>*Other ingredients</td>
<td>Trade Secret</td>
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<td>24.50</td>
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</tbody>
</table>

*Ingredients not specifically listed are non-hazardous or are to be considered proprietary or confidential business information per 29 CFR 1910.1200(i)

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor for treatment advice.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Causes eye irritation.

4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565

Take container, label or product name with you when seeking medical attention.

NOTE TO PHYSICIAN: If ingested, endotracheal intubation and gastric lavage should be performed as soon as possible followed by charcoal and sodium sulfate administration.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO₂), alcohol foam, foam, water spray or fog. Do not use water jet as this will spread the fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, oxides of carbon, hydrocarbons, and phosphorus can be released.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.
6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
Personal Precautions: Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing.

6.2 ENVIRONMENTAL PRECAUTIONS
Environmental Precautions: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP
Methods for Clean-Up:
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush contaminated area thoroughly 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.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:
Advice on Safe Handling: Refer to product labeling for additional information. Avoid inhalation of mists, vapors / spray and contact with eyes, skin and clothing. Do not breathe mists or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

7.2 CONDITIONS FOR SAFE STORAGE:
Requirements for Storage Areas and Containers: Do not use or store near heat or open flame. Keep the container tightly closed and dry in a cool, well-ventilated place. Storage temperatures should not exceed 125°F. If bulk product is stored below 32°F, the material should not be pumped until its temperature exceeds 32°F. Protect against direct sunlight. Do not contaminate water, food, feed or seed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

<table>
<thead>
<tr>
<th>OCCUPATIONAL EXPOSURE LIMITS</th>
</tr>
</thead>
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**U.S. Workplace Exposure Level (ACGIH) TLVs**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
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<td>TWA</td>
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**U.S. Workplace Exposure Level (OSHA) PELs**

<table>
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<th>Components</th>
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<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>No listings</td>
<td>TWA</td>
<td></td>
</tr>
</tbody>
</table>

Biological limit values

<table>
<thead>
<tr>
<th>ACGIH Biological Exposure Indices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
</tr>
<tr>
<td>------------</td>
</tr>
<tr>
<td>No listings</td>
</tr>
</tbody>
</table>
8.2 EXPOSURE CONTROLS:

**Engineering Measures**
When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticide [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**Individual Protection Measures:**

- **Eye / Face Protection:** Goggles or shielded safety glasses are recommended.
- **Skin Protection:** Coveralls worn over short-sleeved shirt and short pants. Chemical-resistant gloves: barrier laminate, butyl rubber > 14 mils, nitrile rubber > 14 mils, neoprene rubber > 14 mils, polyvinyl chloride (PVC) > 14 mils, or Viton® > 14 mils. Chemical resistant footwear plus socks. Wear a chemical resistant apron when mixing/loading and cleaning equipment.
- **Respiratory Protection:** Mixers/loaders supporting aerial applications must wear a dust/mist filtering respiratory (MSHS/NIOSH approval number TC-21C), or a NIOSH approved respirator with any N, R, P, or HE filter. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are unknown.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Liquid, clear viscous

**ODOR:** Slight ammonia-like.
**ODOR THRESHOLD:** No data available.
**COLOR:** Red.
**pH:** 6.77 (1% w/w).
**MELTING POINT / FREEZING POINT:** No data available.
**BOILING POINT:** No data available.
**FLASH POINT:** >212°F / >100°C.
**FLAMMABILITY (solid, gas):** No data available.
**UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:** No data available.
**VAPOR PRESSURE:** No data available.
**SOLUBILITY:** Emulsifies
**PARTITION CO-EFFICIENT, n-OCTANOL / WATER:** No data available.
**AUTO-IGNITION TEMPERATURE:** No data available.
**DECOMPOSITION TEMPERATURE:** No data available.
**VISCOSITY**: (kinematic): 208 centistokes @ 20°C / 68°F | 76.6 centistokes @ 40°C / 104°F
**SPECIFIC GRAVITY (Water = 1):** 1.15 g/ml
**DENSITY:** 9.62 lbs/gal / 1.15 kg/L

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY
Stable

10.2 CHEMICAL STABILITY
Stable under normal temperature and use conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS
No data available. Will not polymerize.

10.4 CONDITIONS TO AVOID
Exposure to elevated temperatures can cause product decomposition.

10.5 INCOMPATIBLE MATERIALS
Avoid contact with mild steel.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS
Oxides of carbon, oxides of nitrogen and hydrogen chloride may form in a fire situation.
11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

Inhalation. Ingestion. May include dermal or eye contact.

LC50 (rat): >2.13 mg/L (4 HR)
LD50 Oral (rat): > 1750 mg/kg
LD50 Dermal (rat): > 2000 mg/kg - < 5000 mg/kg

Acute Toxicity Estimates: No data available

Skin Irritation (rabbit): May cause slight irritation.

Eye Irritation (rabbit): Causes moderate eye irritation.


Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: No data available

Reproductive Toxicity: No data available for end-use product

Germ Cell Mutagenicity: No data available

Interactive Effects: None known

12 ECOLOGICAL INFORMATION

12.3 ECOTOXICITY

Do not apply directly to water or to areas where surface water is present, except as allowed by Use Directions for rice on the product label. Do not apply to intertidal areas below the mean high water mark. Do not contaminate water by cleaning equipment of disposal of equipment washwaters or rinsate.

Ecotoxicological Data

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glufosinate-ammonium</td>
<td>Rainbow Trout</td>
</tr>
<tr>
<td></td>
<td>Daphnia Magna</td>
</tr>
<tr>
<td></td>
<td>Apis mellifera</td>
</tr>
<tr>
<td></td>
<td>Bobwhite Quail</td>
</tr>
<tr>
<td></td>
<td>Mallard Duck</td>
</tr>
</tbody>
</table>

Drift or runoff may adversely affect non-target plants.

Do not apply directly to water.

Do not contaminate water when disposing of equipment wash water.

Do not apply when weather conditions favor drift from target area.

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

12.4 MOBILITY IN SOIL

No data available.

12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

13 DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. Do not contaminate water, food or feed by storage or disposal.
14 TRANSPORT INFORMATION

14.3 LAND TRANSPORT
DOT Shipping Description: NOT REGULATED BY DOT
U.S. Surface Freight Classification: COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2: CLASS: 60)

15 REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings:

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Health</td>
<td>2 Health</td>
</tr>
<tr>
<td>1 Flammability</td>
<td>1 Flammability</td>
</tr>
<tr>
<td>1 Instability</td>
<td>2 Moderate</td>
</tr>
<tr>
<td>3 High</td>
<td>C PPE</td>
</tr>
<tr>
<td>4 Severe</td>
<td></td>
</tr>
</tbody>
</table>

SARA Hazard Notification/Reporting
SARA Title III Hazard Category:
- Immediate: Y
- Delayed: Y
- Fire: N
- Reactive: N
- Sudden Release of Pressure: N

Reportable Quantity (RQ) under U.S. CERCLA: Not listed.
SARA, Title III, Section 313: Not listed.
RCRA Waste Code: Not listed.
CA Proposition 65: Not applicable

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION
Harmful if absorbed through skin.
Harmful if swallowed.
Causes moderate eye irritation.
Avoid contact with skin, eyes or clothing.
Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco or using the toilet.
Wear long sleeved shirt and long pants, socks, shoes, and gloves.
Remove and wash contaminated clothing before reuse.
Wear protective eyewear (if appropriate).

16 OTHER INFORMATION

SDS STATUS: Format updated.
PREPARED BY: Registrations and Regulatory Affairs
REVIEWED BY: Environmental Health and Safety

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EPA REG. NO.: 34704-1080

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