SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name : GLO-2 GOODSON GLOW Penetrant
Product code : GLO-2, FL50
UN/ID No. : UN1950
Other Information : Package type - Aerosol
Recommended Use : Fluorescent Penetrant for Leak Detection
Distributor : Goodson Manufacturing Company
156 Galewski Drive
Winona, MN 55987-0847 - USA
T 507-452-1830
F 507-452-2907
Emergency number : 800-924-6804 (24 hours)

SECTION 2: Hazard(s) Identification

Classification of the Substance or Mixture
Appearance : Yellow-Green Liquid
Physical State : Aerosol
Odor : Mild, ethereal
Classification : Gases under pressure. Compressed gas.

Label elements
Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : Contains gas under pressure; may explode if heated.
Precautionary statements (Storage) : Protect from sunlight. Store in a well-ventilated place.
Hazards Not Otherwise Classified : May be harmful if swallowed.

SECTION 3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS Number</th>
<th>% Weight Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol Ethoxylates</td>
<td>061702-78-1</td>
<td>40</td>
</tr>
<tr>
<td>Ethylene Glycol Monobutyl Ether</td>
<td>000111-76-1</td>
<td>40</td>
</tr>
<tr>
<td>1,1,1,2-Tetrafluoroethane</td>
<td>000811-92-2</td>
<td>15</td>
</tr>
<tr>
<td>Fluoranthene</td>
<td>000206-44-0</td>
<td>2</td>
</tr>
</tbody>
</table>

SECTION 4: First Aid Measures

Description of Necessary First Aid Measures

General Advice : Provide this SDS to medical personnel for treatment.
Eye Contact : If sprayed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call physician.
Skin Contact : In case of contact, wash skin thoroughly with soap and water. Remove any contaminated clothing and wash before reuse.
Inhalation : If overcome by vapor, remove from exposure and call physician immediately. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available.
Ingestion : If swallowed, immediately drink two glasses of water and induce vomiting by either giving ipecac syrup or by placing finger at back of throat. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms: High vapor concentrations are irritating to the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects. Prolonged or repeated skin contact tends to remove skin oils possibly leading to irritation and dermatitis. Contact may cause eye irritation. Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indications of Immediate Medical Attention and Special Treatment

Notes to Physician: Treat symptomatically.

SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media: Foam, dry chemical, CO2, water spray or fog.

Unsuitable Extinguishing Media: Undetermined.

Hazards from the Product: Combustible liquid. Containers may burst due to pressure build-up of contents from exposure to the heat of fire.

Advice for firefighters: As in any fire, wear self-contained breathing apparatus (SCBA) pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Cool exposed containers with water spray. Avoid breathing vapor or fumes.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures


For Emergency Responders: Follow applicable OSHA regulations (29 CFR 1910.120).

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12 (Ecological Information) of this SDS.

Methods and Materials for Containment and Cleaning up

Containment Procedures: Prevent further leakage or spillage if safe to do so. Contain and soak up with inert absorbent material.

Cleanup Procedures: Use clean non-sparking tools to collect absorbed material. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state and local regulations. For waste disposal, see section 13 of this SDS.

SECTION 7: Handling and Storage

General Handling Precautions: Handle in accordance with good industrial hygiene and safety practices. Wash face, hands and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8 of this SDS. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Avoid contact with skin, eyes or clothing.

Storage Requirements: Keep containers closed when not in use. Do not handle or store near heat, sparks, flames or strong oxidants. AEROSOL: Store in a cool dry place at temperatures below 120ºF. Do not puncture or incinerate aerosol cans. SHELF LIFE: 2 years.

Incompatible Materials: Oxidizing agents.
SECTION 8: Exposure Controls/Personal Protection

Exposure Guidelines:
No exposure limits noted for ingredients.

Appropriate Engineering Controls:
VENTILATION: Use with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking or open lights.

Individual Protection Measures, Such as Personal Protective Equipment:

Eye/Face Protection:
Use splash goggles or face shield when contact may occur.

Skin & Body Protection:
Use chemical resistant gloves, if needed, to avoid prolonged or repeated skin contact. Use chemical resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

Respiratory Protection:
Use supplied-air respiratory protection in confined or enclosed spaces.

General Hygiene Considerations:
Wash contaminated clothing before reuse.

SECTION 9: Physical and Chemical Properties

Physical State:
Aerosol

Appearance:
Yellow-Green Liquid

Odor:
Mild, ethereal

Odor Threshold:
Not determined

Property Note:
The physical data presented below are for the bulk formula specification.

pH:
Not Available

Melting / Freezing Point:
Not determined.

Boiling Point / Boiling Range:
171.11°C / 340°F

Flash Point:
86.66°C / 188°F (COC, ASTM D92)

Evaporation Rate:
< 1 (Water = 1)

Flammability (Solid, Gas):
Not determined.

Upper Flammability Limits:
10.6%

Lower Flammability Limits:
1.14%

Vapor Pressure:
0.88 mm Hg @68°F (20°C)

Vapor Density:
4.1 (Air = 1)

Specific Gravity:
0.96

Water Solubility:
Soluble in Water

Solubility in Other Solvents:
Not determined.

Partition Coefficient:
Not determined.

Auto-Ignition Temperature:
Not determined.

Decomposition Temperature:
Not determined.

Kinematic Viscosity:
Not determined.

Dynamic Viscosity:
Not determined.

Explosive Properties:
Not determined.

Oxidizing Properties:
Not determined.

Additional Information:
Percent Volatile: 45
SECTION 10: Stability and Reactivity

Reactivity: Not reactive under normal conditions.
Chemical Stability: Stable under recommended storage conditions.
Hazardous Reactions: None under normal processing.
Hazardous Polymerization: Hazardous Polymerization does not occur.
Conditions to Avoid: Keep away from heat, sparks, and flames.
Incompatible Materials: Oxidizing agents.
Decomposition Products: None known based on information supplied.

SECTION 11: Toxicological Information

Information on Likely Routes of Exposure
Eye Contact: May cause temporary irritation on eye contact.
Skin Contact: Prolonged contact may cause redness and irritation.
Inhalation: Vapor may irritate respiratory tract.
Ingestion: May be harmful if swallowed.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoranthene (000206-44-0)</td>
<td>= 2g/kg (rat)</td>
<td>= 3180 mg/kg (rabbit)</td>
<td>—</td>
</tr>
</tbody>
</table>

Information on Physical, Chemical & Toxicological Effects
Symptoms: Please see Section 4 of this SDS for symptoms.
Delayed and Immediate Effects As Well As Chronic Effects From Short & Long-Term Exposure
Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoranthene (000206-44-0)</td>
<td>—</td>
<td>Group 3</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

IARC (International Agency for Research on Cancer), Group 3 IARC components are "not classifiable as human carcinogens."

Numerical Measures of Toxicity: Not determined.

SECTION 12: Ecological Information

Ecotoxicity: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence / Degradability: Not determined.
Bioaccumulation: Not determined.
Mobility: Fluoranthene (000206-44-0) - Partition Coefficient: 5.33
Other Adverse Effects: Not determined.

SECTION 13: Disposal Considerations

Waste Treatment Methods
Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>RCR</th>
<th>RCRA Basis for Listing</th>
<th>RCRA D Series Wastes</th>
<th>RCRA U Series Wastes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoranthene (000206-44-0)</td>
<td>U120</td>
<td>Included in waste streams: F039, K001, K035</td>
<td>—</td>
<td>U120</td>
</tr>
</tbody>
</table>
SECTION 14: Transport Information

NOTE: Please see current shipping paper for most up to date shipping information, including exemptions & special circumstances.

DOT
- UN/ID No.: UN1950
- Proper Shipping Name: Aerosols
- Hazard Class: 2.2

IATA
- UN/ID No.: UN1950
- Proper Shipping Name: Aerosols, non-flammable
- Hazard Class: 2.2

IMDG
- UN/ID No.: UN1950
- Proper Shipping Name: Aerosols
- Hazard Class: 2.2

SECTION 15: Regulatory Information

International Inventories: United States Toxic Substances Control Act Section 8(b) Inventory (TSCA) Listed.

US Federal Regulations

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoranthene (000206-44-0)</td>
<td>100 lb.</td>
<td>RQ 100 lb final RQ</td>
<td>RQ 45.4 kg final RQ</td>
</tr>
</tbody>
</table>

CERCLA

SARA 313

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>Threshold Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoranthene</td>
<td>000206-44-0</td>
<td>2</td>
<td>1.0 0.1</td>
</tr>
</tbody>
</table>

CWA (Clean Water Act)

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Reportable Quantities</th>
<th>Toxic Pollutants</th>
<th>Priority Pollutants</th>
<th>Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoranthene (000206-44-0) (2)</td>
<td>-</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
</tbody>
</table>

US State Regulations

US State Right to Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoranthene (000206-44-0) (2)</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>
SECTION 16: Other Information

NFPA

Health Hazards (1), Flammability (1), Instability (1), Special Hazards (not determined)

HMIS

Health Hazards (1), Flammability (1), Physical Hazards (1), Personal Protection (B)

SDS History

Issue Date : 02-February-2004
Revision Date : 21-July-2015
Revision Note : OSHA issued update

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End of Safety Data Sheet