SAFETY DATA SHEET

Product identifier

Product Name JET-LUBE® RUN-N-SEAL® ECF™

Other means of identification

Product Code(s) 292
(M)SDS Number WPS-JLI-047
Synonyms RUN-N-SEAL® ECF™; ILEX RUN-N-SEAL® ECF™

Recommended use of the chemical and restrictions on use

Recommended Use Sealant Lubricants, Greases and Release Products
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Identification Whitmores Manufacturing, LLC.
Address Whitmore Manufacturing
930 Whitmore Drive
Rockwall, Texas USA 75087
Telephone US Office: Phone:+1-972-771-1000 Fax:+1-972-722-2108
E-mail Sales@whitmores.com

Emergency telephone number

Company Emergency Phone Number 1-800-699-6318
Emergency Telephone Number CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

2. HAZARDS IDENTIFICATION

Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).
GHS Label elements, including precautionary statements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

Precautionary Statements - Prevention
Do not handle until all safety precautions have been read and understood
Wear personal protective equipment/face protection
Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance</th>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight-%</th>
<th>Hazardous Material Information Review Act registry number (HMIRA registry #)</th>
<th>Date HMIRA filed and date exemption granted (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUN-N-SEAL® ECF™; ILEX RUN-N-SEAL® ECF™</td>
<td>Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc.</td>
<td>74869-21-9</td>
<td>60-65</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Calcium fluoride</td>
<td>7789-75-5</td>
<td>25-30</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Graphite</td>
<td>7782-42-5</td>
<td>5-10</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General advice IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
Inhalation

Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

Skin contact

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms

Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

Other Information

Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up
Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards
Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium fluoride 7789-75-5</td>
<td>TWA: 2.5 mg/m³ F</td>
<td>TWA: 2.5 mg/m³ F (vacated) TWA: 2.5 mg/m³ F</td>
<td>IDLH: 250 mg/m³ F</td>
</tr>
<tr>
<td>Graphite 7782-42-5</td>
<td>TWA: 2 mg/m³ respirable particulate matter all forms except graphite fibers</td>
<td>TWA: 15 mg/m³ total dust synthetic</td>
<td>IDLH: 1250 mg/m³ TWA: 2.5 mg/m³ respirable dust</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario TWAEV</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium fluoride 7789-75-5</td>
<td>TWA: 2.5 mg/m³</td>
<td>TWA: 2.5 mg/m³</td>
<td>TWA: 2.5 mg/m³</td>
<td>TWA: 2.5 mg/m³</td>
</tr>
<tr>
<td>Graphite 7782-42-5</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
</tr>
</tbody>
</table>

Other Exposure Guidelines
Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering controls
Showers
Eyewash stations
Ventilation systems.
Individual protection measures, such as personal protective equipment

Eye/face protection  
If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection  
Wear suitable gloves. Impervious gloves.

Skin and body protection  
Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection  
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations  
Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>7</td>
<td>None known</td>
</tr>
<tr>
<td>Melting / freezing point</td>
<td>&gt; 204 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>&gt; 260 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 221 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.32</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Negligible</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not Applicable</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
<td>None known</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
<td>None known</td>
</tr>
</tbody>
</table>

Other Information

Softening Point: No information available
Molecular Weight: No information available
VOC Content (%): None
Liquid Density: No information available
Bulk Density: No information available
Particle Size: No information available
Particle Size Distribution: No information available

10. STABILITY AND REACTIVITY
Reactivity
No information available.

Chemical stability
Stable under normal conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
None known based on information supplied.

Incompatible materials

Hazardous Decomposition Products
Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation
No known hazard by inhalation.

Eye contact
None known.

Skin contact
None known.

Ingestion
Not an expected route of exposure. Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on toxicological effects

Symptoms
Redness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 2,889.00 mg/kg

Unknown acute toxicity
No information available

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. May contain organic salts of alkali metals, alkaline earth metals, etc.</td>
<td>= 2280 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium fluoride</td>
<td>= 4250 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
No information available.

Serious eye damage/eye irritation
No information available.
Respiratory or skin sensitization  No information available.
Germ cell mutagenicity  No information available.
Carcinogenicity  No information available.
Reproductive toxicity  No information available.
STOT - single exposure  May cause respiratory irritation.
STOT - repeated exposure  No information available.
Aspiration hazard  No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity  The environmental impact of this product has not been fully investigated.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50, may contain organic salts of alkali metals, alkaline earth metals, etc.</td>
<td>&gt;1001 mg/l</td>
<td>96h LC50: &gt; 2000 mg/L (Salmo gairdneri)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Persistence and Degradability  No information available.
Bioaccumulation  There is no data for this product.
Mobility  No information available.
Other adverse effects  No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Waste from residues/unused products  Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging  Do not reuse empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium fluoride 7789-75-5</td>
<td>Toxic</td>
</tr>
</tbody>
</table>
## 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>NOT REGULATED</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>NON REGULATED</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>N/A</td>
</tr>
<tr>
<td>TDG</td>
<td>Not regulated</td>
</tr>
<tr>
<td>MEX</td>
<td>NOT REGULATED</td>
</tr>
<tr>
<td>ICAO</td>
<td>NOT REGULATED</td>
</tr>
<tr>
<td>IATA</td>
<td>Not regulated</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>NON REGULATED</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not regulated</td>
</tr>
<tr>
<td>RID</td>
<td>NOT REGULATED</td>
</tr>
<tr>
<td>ADR</td>
<td>NOT REGULATED</td>
</tr>
<tr>
<td>ADN</td>
<td>NOT REGULATED</td>
</tr>
</tbody>
</table>

## 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

**International Regulations**

- **Ozone-depleting substances (ODS)** Not applicable
- **Persistent Organic Pollutants** Not applicable
- **Export Notification requirements** Not applicable

**International Inventories**

- **TSCA** Complies.
- **DSL/NDSL** Complies.
- **EINECS/ELINCS** Complies.
- **ENCS** Not determined.
- **KECL** Not determined.
- **PICCS** Complies.
- **AICS** Contact supplier for inventory compliance status.

**Legend**

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372
Acute Health Hazard: Yes  
Chronic Health Hazard: No  
Fire Hazard: No  
Sudden release of pressure hazard: No  
Reactive Hazard: No

**CWA (Clean Water Act)**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations**

**California Proposition 65**
This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**
This product may contain substances regulated by state right-to-know regulations.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Rhode Island</th>
<th>Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphite 7782-42-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**16. OTHER INFORMATION**

**NFPA**
- Health hazards: 1  
- Flammability: 1  
- Instability: 0  
- Physical and Chemical Properties:  

**HMIS**
- Health hazards: 1  
- Flammability: 1  
- Physical hazards: 0  
- Personal Protection: X

**Prepared By**
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

**Issuing Date**
11-Nov-2011

**Revision Date**
22-Mar-2019

**Revision Note**
Initial Release

**Disclaimer**
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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.

**End of Safety Data Sheet**