



A CSW Industrials Company

SAFETY DATA SHEET

Issuing Date 04-Jun-2014

Revision Date 04-May-2016

Revision Number 1

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s) 209

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

Synonyms RUN-N-SEAL® ECF™; ILEX RUN-N-SEAL® ECF™

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Lubricants, Greases and Release Products Sealant

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Importer	Company
Jet-Lube (UK) Ltd	Jet-Lube, Inc.
Jet-Lube House	4849 Homestead Rd.
Reform Road	Suite 232
Maidenhead	Houston, Texas 77028
Berkshire UK	TEL: 713-670-5700 (7:00 a.m. - 5 p.m.)
SL6 8BY	
TEL: 44 1628-631913 (8:00 a.m. - 5:00 p.m.)	

For further information, please contact

E-mail Address doldiges@jetlube.com

1.4. Emergency telephone number

Emergency Telephone Number CHEMTREC: 703-741-5500

Europe	112
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Section 2. Hazards identification

2.1. - Classification of the substance or mixture

REGULATION (EC) No 1272/2008

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

Physical Hazards

None

2.2. Label Elements

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

Signal Word None

2.3. Other information

No information available.

Section 3. Composition/information on ingredients

3.1. Not applicable

3.2. Mixtures

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification	REACH No.
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.	278-011-7	74869-21-9	60-70	Carc. 1B (H350)	No data available
Calcium fluoride	232-188-7	7789-75-5	25-35		No data available
Graphite	231-955-3	7782-42-5	5-10		No data available

For the full text of the H-Statements mentioned in this Section, see Section 16

Note

The full refining history is known for this product and it can be shown that the substance from which it is produced is not a carcinogen. This note applies only to certain complex oil derived substances in Annex I.

Section 4. First aid measures

4.1. Description of first-aid measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice.
Inhalation	Move to fresh air.

4.2. Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Dry powder. Carbon dioxide (CO₂). Foam. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Burning produces obnoxious and toxic fumes. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Halogenated compounds.

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

Small spillage: Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Large spillage: Dam up. Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for Safe Handling**Handling**

Wear personal protective equipment. Ensure adequate ventilation. Wash thoroughly after handling.

Hygiene Measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)**Exposure Scenario**

No information available.

Other Guidelines

No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters**Exposure Limits**

Chemical Name	EU	Austria	Belgium	Cyprus	Denmark
Calcium fluoride 7789-75-5	TWA: 2.5 mg/m ³ (as F)				TWA: 2.5 mg/m ³ (as F)
Graphite 7782-42-5		STEL: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 2 mg/m ³		TWA: 2.5 mg/m ³
Chemical Name	Finland	France	Germany	Gibraltar	Greece
Calcium fluoride 7789-75-5	TWA: 2.5 mg/m ³ (as F)	VME: 2.5 mg/m ³ (as F)	TWA: 1 mg/m ³		
Graphite 7782-42-5	TWA: 2 mg/m ³	VME: 2 mg/m ³	TWA: 1.5 mg/m ³ TWA: 4 mg/m ³ Repr*		TWA: 10 mg/m ³ TWA: 5 mg/m ³
Chemical Name	Ireland	Italy	Lithuania	Luxembourg	Malta

Calcium fluoride 7789-75-5	TWA: 2.5 mg/m ³ STEL: 7.5 mg/m ³	TWA: 2.5 mg/m ³ (as F)			
Graphite 7782-42-5	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³	TWA: 2 mg/m ³	TWA: 5 mg/m ³		
Chemical Name	The Netherlands	Norway	Poland	Portugal	Spain
Calcium fluoride 7789-75-5			NDSCh: 3 mg/m ³ NDS: 1 mg/m ³	TWA: 2.5 mg/m ³ (as F)	VLA-ED: 2.5 mg/m ³ (as F)
Graphite 7782-42-5		TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 5 mg/m ³ STEL: 2 mg/m ³ STEL: 10 mg/m ³ STEL: 4 mg/m ³	TWA: 4.0 mg/m ³ TWA: 1.0 mg/m ³ TWA: 6.0 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³
Chemical Name	Switzerland		Sweden		The United Kingdom
Calcium fluoride 7789-75-5					TWA: 2.5 mg/m ³ (as F) STEL: 7.5 mg/m ³ (as F)
Graphite 7782-42-5	TWA: 2.5 mg/m ³ TWA: 5 mg/m ³		LLV: 5 mg/m ³		STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³

Legend:

TWA (Time weighted Average) STEL (Short Term Exposure Limit) TLV (Threshold Limit Value) The notations represented by an * may not be consistent with Harmonized Classifications, but are being presented for information purposes only. Repr* - Reproductive

Biological occupational exposure limits

Chemical Name	Denmark	Finland	France	Germany	Gibraltar
Calcium fluoride 7789-75-5			3 mg/g creatinine urine beginning of shift Fluorides Background noise on non-exposed subjects, Non-specific (observed after the exposure to other substances) 10 mg/g creatinine urine end of shift Fluorides Background noise on non-exposed subjects, Non-specific (observed after the exposure to other substances)		
Chemical Name	Hungary	Ireland	Italy	Latvia	Luxembourg
Calcium fluoride 7789-75-5			(ACGIH:) 2 mg/g Creatinine urine prior to shift Fluorides Background, nonspecific (ACGIH:) 3 mg/g Creatinine urine end of shift Fluorides Background, nonspecific		
Chemical Name	Netherlands	Norway	Poland	Portugal	Romania
Calcium fluoride 7789-75-5					5 mg/g Creatinine urine end of shift Fluorine
Chemical Name	Slovakia		Spain	Switzerland	United Kingdom
Calcium fluoride 7789-75-5			8 mg/L urine end of shift Fluorides 2,F,I		

Derived No Effect Level No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye Protection	Safety glasses with side-shields.
Skin and Body Protection	Long sleeved clothing.
Hand Protection	Protective gloves.
Respiratory Protection	None required under normal usage. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Environmental Exposure Controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow material to contaminate ground water system. Prevent product from entering drains.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Semi-fluid (gel)	Appearance	Black
Odor	Rapeseed Oil		
Property	Values	Remarks/ - Method	
pH	Neutral	None known	
Melting Point/Range	> 204 °C	None known	
Boiling Point/Boiling Range	> 260 °C	None known	
Flash Point	> 221 °C	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Vapor Pressure	No data available	None known	
Vapor Density	No data available	None known	
Relative Density	No data available	None known	
Water Solubility	Insoluble in water.	None known	
Solubility in other solvents	Largely	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition Temperature	No data available	None known	
Decomposition Temperature	No data available	None known	
Viscosity	No data available	None known	
Explosive Properties	No data available	None known	
Oxidizing Properties	No data available	None known	

9.2. Other information

VOC Content (%)	None
Flammability Limits in Air	No data available

Section 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Incompatible products.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal use.

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

- Product Information**
- Inhalation**
- Eye Contact**
- Skin Contact**
- Ingestion**

Product does not present an acute toxicity hazard based on known or supplied information.
 None known.
 None known.
 None known.
 Not an expected route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium fluoride	= 4250 mg/kg (Rat)		

- Sensitization** None known.
- Mutagenic Effects** None known.
- Carcinogenic Effects** None known.
- Reproductive Toxicity** None known.
- Developmental Toxicity** None known.
- STOT - single exposure** None known
- STOT - repeated exposure** None known
- Target Organ Effects** Central vascular system (CVS). Respiratory system.
- Aspiration Hazard** Not applicable

Section 12. Ecological information

12.1. Toxicity

Ecotoxicity Effects

May cause long-term adverse effects in the aquatic environment. EC50/72h/Skeletonema costatum = 11 mg/L.
 LC50/96h/Scophthalmus maximus = >1800 mg/L. Aquatic toxicity is unlikely due to low solubility. Sea sediment
 LC50/10d/Corophium sp. = >12168 mg/kg.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
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.	>1001 mg/l	LC50 96 h: > 2000 mg/L (Salmo gairdneri)		
Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to aquatic invertebrates

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.	EC50 >1001 mg/l	LC50 >1000 mg/l		LC50 = 247.2 mg/l
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12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

Adsorbs on soil.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods

Waste from Residues / Unused Products	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Other Information	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Section 14. Transport information

IMDG/IMO

14.1. UN-Number	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Marine Pollutant	None
14.6. Special Provisions	None
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.

RID

14.1. UN-Number	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None
14.6. Special Provisions	None

ADR

14.1. UN-Number	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None
14.6. Special Provisions	None

ICAO

14.1. UN-Number	Not regulated.
14.2. Proper shipping name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None
14.6. Special Provisions	None

IATA

14.1. UN-Number	Not regulated.
14.2. Proper Shipping Name	Not regulated.
14.3. Hazard Class	Not regulated.
14.4. Packing Group	Not regulated.
Description	Not applicable.
14.5. Environmental hazard	None
14.6. Special Provisions	None

Section 15. Regulatory information

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

WGK Classification Water endangering class = 1

International Inventories

TSCA	-
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Not determined
IECSC	Complies
AICS	Not determined
KECL	Not determined

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No information available

Section 16. Other information**Key literature references and sources for data**www.ChemADVISOR.com/

Issuing Date	04-Jun-2014
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Revision Note	Update to Format.

This safety data sheet complies with the requirements of Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006

General Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet