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safety data sheet

**Safety Data Sheet: Signal Film 015**  
**Revision Date: January 2<sup>nd</sup> 2022**

**SECTION 1**

**PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT**

**Product Name:** Signal Film 015  
**Product Description:** Base Oil and Additives  
**Intended Use:** Corrosion protection fluid

**COMPANY IDENTIFICATION**

**Supplier:** Beacon Lubricants  
P.O Box 754  
Edinboro, PA 16412

**Emergency Telephone:** 1-877-734-7334 – Beacon Lubricants, Inc.  
**Emergency Telephone:** 1-800-424-9300 (24 hours) – Chemtrec approval  
**Website:** www.beaconlubricants.com

**SECTION 2**

**HAZARDS IDENTIFICATION**

**Hazard Classification**

**Physical Hazards**

Flammable liquids Category 3

**Health Hazards**

Seriously Eye Damage/Irritation Category 2A

Specific Target Organ Toxicity- Repeated Exposure Category 1

**Unknown toxicity**

Acute toxicity, oral	0.0%
Acute toxicity, dermal	0.0%
Acute toxicity, inhalation, vapor	96.7%
Acute toxicity, inhalation, dust Or mist	96.7%

**Label Elements:**  
**Hazard Symbol:**



**Signal word:** Danger

**Hazard Statement:** Flammable liquid and vapor. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statement:**

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion- proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not breathe dust or mists. Do not eat, drink, or smoke when using this product. Avoid release to the environment.

**Response:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction. Water can be used to cool and protect exposed material. Collect spillage.

**Storage:** Store in well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Other hazards which do not result in GHS classification: None identified.

**SECTION 3**

**COMPOSITION / INFORMATION ON INGREDIENTS**

This material is defined as a mixture.

Name	CAS #	Concentration*	GHS Hazard Codes
HYDRO TREATED MIDDLE DISTILLATE (PETROLEUM)	64742-46-7	20 - < 30 %	H304, H401, H411
SOLVENT REFINDED	64741-88-4	70 - < 80 %	H304



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HEAVY PARAFFINIC DISTILLATE (PETROLEUM)			
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\*All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions

## SECTION 4

## FIRST AID MEASURES

**General information:** Get medical advice/attention if you feel unwell.

**Ingestion:** Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting. **Inhalation:** Remove exposed person to fresh air if adverse effects are observed.

**Skin Contact:** Take off immediately all contaminated clothing. Take off contaminated clothing and wash before re-use. Wash with soap and water. If skin irritation occurs, get medical attention.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

### Most important symptoms/effects, acute and delayed

**Symptoms:** See section 11. Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically.

## SECTION 5

## FIRE FIGHTING MEASURES

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

### Suitable (and suitable) extinguishing media



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**Suitable extinguishing media:** CO<sub>2</sub>, Dry chemical, or Foam. Water can be used to cool and protect exposed material.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations. Vapors may travel considerable distance to a source of ignition and flash back. Water may cause splattering. Container may rupture on heating. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for addition information.

### **Special protective equipment and precautions for firefighters**

**Special fire-fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## SECTION 6

## ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment, and emergency procedures:**

Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area.) Keep upwind. Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations.

**Methods and material for containment and cleaning up:** Eliminate all ignition sources if safe to do so. Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Stop the flow of material if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas.

**Environmental Precautions:** Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

## SECTION 7

## HANDLING AND STORAGE

**Precautions for safe handling:** Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Take precautionary measures



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against static discharges. Ground/bond container and receiving equipment. Use only non-sparking tools. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid environmental contamination.

**Maximum Handling Temperature:** 25 °C 77 °F

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed. Keep cool. Store in a well-ventilated place. Do not store near potential sources of ignition.

**Maximum Storage Temperature:** 25 °C 77 °F

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMIT VALUES**

**Exposure limits/standards (Note: Exposure limits are not additive)**

Substance Name	Type	Limit/Standard	Source
Mineral spirits	TWA	100 ppm	US. ACGIH
Mineral spirits	REL	350 mg/m3	US. NIOSH
Mineral spirits	Ceil Time	1,800 mg/m3	US. NIOSH
Mineral spirits	PEL	500 ppm 2,900 mg/m3	US. OSHA
Mineral spirits-inhalable fraction	TWA	5 mg/m3	US. ACGIH
Mineral spirits-mist	REL	5mg/m3	US. NIOSH
Mineral spirits-mist	STEL	10 mg/m3	US. NIOSH
Mineral spirits-mist	PEL	5mg/m3	US. OSHA

**Exposure limits/standards for materials that can be formed when handling this product:** When mists/aerosols can occur, the following is recommended: 5 mg/m3 - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

**ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions.

Control measures to consider: No special requirements under ordinary



conditions of use and with adequate ventilation.

## PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration, and ventilation. Information of the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Particulate air-purifying respirator approved for dust / oil mist is recommended.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filters capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: No protection is ordinarily required under normal conditions of use.

**Eye Protection:** If contact is likely, safety glass with side shields are recommended. Chemical type goggles should be worn during misting operations.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or

smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

### Environmental Controls

Comply with applicable environmental regulations limiting discharge to air, water, and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9

## PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

**Physical state:** liquid

**Form:** liquid

**Color:** Brown

**Odor:** Hydrocarbon

**Odor threshold:** No data available.

**pH:** No data available.

**Freezing point:** No data available.

**Boiling Point:** > 302 °F (150 °C)

**Flash Point:** 108 °F (42 °C) (Tagliabue Closed Cup)

**Evaporation rate:** No data available.

**Flammability (solid, gas):** No data available.

### Upper/lower limit on flammability or explosive limits

**Flammability limit - upper (%):** No data available.

**Flammability limit - lower (%):** No data available.

**Explosive limit - upper (%):** No data available.

**Explosive limit - lower (%):** No data available.

**Vapor pressure:** No data available.

**Vapor density:** No data available.

**Relative density:** 0.84 - 0.92 @ 60.1 °F (15.6 °C)

### Solubility(ies)

**Solubility in water:** Insoluble in water

**Solubility (other):** No data available.

**Partition coefficient (n-octanol/water):** No data available.

**Auto-ignition temperature:** No data available.

**Decomposition temperature:** No data available.

**Viscosity:** 435 mm<sup>2</sup>/s (104 °F (40 °C)) 26.5 mm<sup>2</sup>/s (100 °C (212 °F)) < 5,000 mPa.s (77 °F (25 °C))



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#### Other information

**Bulk density:** 7.33 lb/gal 77 °F (25 °C)

**VOC:** 3.17 lb/gal

**Pour Point Temperature:** Approximate 43 °F (6 °C)

## SECTION 10

## STABILITY AND REACTIVITY

**Reactivity:** No data available.

**Chemical Stability:** Material is stable under normal conditions.

#### Possibility of Hazardous

**Reactions:** Will not occur.

**Conditions to Avoid:** Heat, sparks, flames.

**Incompatible Materials:** Strong acids.

#### Hazardous Decomposition

#### Products:

Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

## SECTION 11

## TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** Causes mild skin irritation.

**Eye contact:** Causes serious eye irritation.

#### Information on toxicological effects

#### Acute toxicity

#### Oral





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Product: Not classified for acute toxicity based on available data. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. Ingestion can cause central nervous system effects such as headache, dizziness, drowsiness, and generalized weakness. Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

### **Dermal**

Product: Not classified for acute toxicity based on available data.

### **Inhalation**

Product: Not classified for acute toxicity based on available data. High concentrations may cause headaches, dizziness, nausea, stupor, and other central nervous system effects leading to visual impairment, difficulty breathing and convulsions. High concentrations may cause irregular heartbeats and possibly fatal cardiac arrhythmias. High concentration of vapors can reduce oxygen content in the air of confined spaces resulting in oxygen deprivation.

### **Skin Corrosion/Irritation:**

Product: Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.

**Remarks:** Causes mild skin irritation.

### **Serious Eye Damage/Eye Irritation:**

Product: Remarks: Causes serious eye irritation.

### **Respiratory sensitization:**

No data available

### **Skin sensitization:**

**Mineral oil Classification:** Not a skin sensitizer. (Read across) Not a skin sensitizer.

### **Specific Target Organ Toxicity - Single Exposure:**

Mineral spirits If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.



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Mineral oil If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

### **Aspiration Hazard:**

Mineral oil Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

### **Other effects:**

Mineral spirits Kidney Petroleum hydrocarbon solvent is toxic to lungs, central nervous system, brain, mucous membranes, skin, eyes and possibly the blood, liver, or kidneys.

### **Chronic Effects**

#### **Carcinogenicity:**

Product: This product contains mineral oils which are severely refined and not considered carcinogenic. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity:

Mineral spirits This material has not exhibited mutagenic or genotoxic potential in laboratory tests.

Reproductive toxicity:

No data available

Specific Target Organ Toxicity - Repeated Exposure:



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Mineral spirits Unknown: Target Organ(s): Brain., Lung

Repeated excessive ingestion may cause central nervous system effects.

## SECTION 12

## ECOLOGICAL INFORMATION

### Ecotoxicity

#### Fish

Mineral oil LC 50 (Fathead Minnow, 4 d): > 100 mg/l

#### Aquatic Invertebrates

Mineral oil EC 50 (Water flea (Daphnia magna), 2 d): > 10,000 mg/l

EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l

NOEC (Water flea (Daphnia magna), 21 d): > 10 mg/l

#### Toxicity to Aquatic Plants

Mineral oil EC 50 (Green algae (Scenedesmus quadricauda), 3 Days): > 100 mg/l

#### Toxicity to soil dwelling organisms

No data available

#### Sediment Toxicity

No data available

#### Toxicity to Terrestrial Plants

No data available

#### Toxicity to Above-Ground Organisms

No data available

#### Toxicity to microorganisms

No data available

#### Persistence and Degradability

##### Biodegradation

Mineral oil OECD TG 301 B, 31 %, 28 d, Not readily degradable.

##### Bio accumulative Potential

##### Bioconcentration Factor (BCF)

No data available

##### Partition Coefficient n-octanol / water (log Kow)

No data available

##### Mobility:

No data available

Other Adverse Effects: No data available.

### 13. Disposal considerations

Disposal instructions: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Dispose of packaging or containers in accordance with local, regional, national, and international regulations. Empty containers retain material residue.



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Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark, or other sources of ignition.

Contaminated Packaging: Container packaging may exhibit hazards.

## SECTION 13

## DISPOSAL CONSIDERATIONS

**Disposal instructions:** Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national, and international regulations. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark, or other sources of ignition.

**Contaminated Packaging:** Container packaging may exhibit hazards

## SECTION 14

## TRANSPORT INFORMATION

### DOT

UN Number: NA 1993

UN Proper Shipping Name: Combustible liquid, n.o.s. (Mineral spirits, Benzene, 1,2,4-trimethyl-)

Transport Hazard Class(es)

Class: CBL

Label(s): –

Packing Group: III

Marine Pollutant: Yes

Special precautions for user: None established

### IMDG

UN Number: UN 1268

UN Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S. (Mineral spirits, Benzene, 1,2,4-trimethyl-)

Transport Hazard Class(es)

Class: 3

Label(s): 3

EmS No.: F-E, S-E

Packing Group: III

Marine Pollutant: Yes

Limited quantity 5.00L

Excepted quantity E1



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Special precautions for user: None established

### **IATA**

UN Number: UN 1268

Proper Shipping Name: Petroleum distillates, n.o.s. (Mineral spirits, Benzene, 1,2,4-trimethyl-)

Transport Hazard Class(es):

Class: 3

Label(s): 3

Marine Pollutant: Yes

Packing Group: III

Limited quantity 10.00L

Excepted quantity E1

Environmental Hazards Marine Pollutant

Special precautions for user: None established

Other information

Passenger and cargo aircraft: Allowed.

Cargo aircraft only: Allowed.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** None known.

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Review classification requirements before shipping materials at elevated temperatures.

## **SECTION 15**

## **REGULATORY INFORMATION**

### **US Federal Regulations**

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard Immediate

(Acute) Health

Hazards

Delayed

(Chronic)

Health Hazard

SARA 302 Extremely Hazardous Substance



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SARA 304 Emergency Release Notification

SARA 311/312 Hazardous Chemical

SARA 313 (TRI Reporting)

This product may contain chemical(s) regulated under the Superfund Amendments and Reauthorization

Act (SARA). For additional information please contact Lubrizol Customer

Assistance: America(s):

AmerLZAMCustomerAssistance@Lubrizol.com; Europe:

EMEACustomerAssistance@Lubrizol.com.

Asia: APCustomerAssistance@Lubrizol.com

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

Inventory Status

Australia (AICS)

All components are in compliance with chemical notification requirements in Australia.

Canada (DSL/NDSL)

All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

China (IECSC)

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

European Union (REACH)

To obtain information on the REACH compliance status of this product, please visit [Lubrizol.com/REACH](http://Lubrizol.com/REACH), or

e-mail us at [REACH\\_MSDS\\_INQUIRIES@Lubrizol.com](mailto:REACH_MSDS_INQUIRIES@Lubrizol.com)

Japan (ENCS)

All components are in compliance with the Chemical Substances Control Law of Japan.

Korea (ECL)

All components are in compliance in Korea.

New Zealand (NZIoC)

All components are in compliance with chemical notification requirements in New Zealand.

Philippines (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear

Wastes Control Act of 1990 (R.A. 6969).

Switzerland (SWISS)



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All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

United States (TSCA)

All components of this material are on the US TSCA Inventory.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

## SECTION 16

## OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

### **THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**

Updates made in accordance with implementations of GHS requirements.

The information and recommendations contained herein are, to the best of Beacon Lubricants knowledge and belief, accurate and reliable as of the date issued. You can contact Beacon Lubricants to ensure that this document is the most current available from Beacon Lubricants. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for intended use. If the buyer repackages this product, it is the user's responsibility to ensure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication, or retransmission of this document, in whole or in part, is not permitted.