

# PAG LUBRICANT & A/C OIL

DATE PREPARED: 08/2017

## MATERIAL SAFETY DATA SHEET

### 1. General Information

Name of Supplier:

**NLS Products**

**Box 790, 1 Lakewood Crescent  
Bobcaygeon, Ontario, K0M 1A0**

**TEL: (705) 738-2321 FAX: (705) 738-4550 EMAIL: MAIL@NLSPRODUCTS.CA**

**Manufacturer: Bright Solutions International, LLC.**

**Canada / US Emergency Response Chem-Trek # 1-800-255-3924**

**Product Name: PAG Lubricant & A/C Dye**

**Product Type: Fluorescent Dye Leak Detection**

**Stock #'s: 130130**

HMIS:

Health-2

Flammability-1

Physical Hazard- 0

### 2. Composition / Information on Ingredients

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### 3. Hazards Identification

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

#### **Precautionary Statements**

P281 - Use personal protective equipment as required

P262 - Do not get in eyes, on skin, or on clothing

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P501 - Dispose of contents/ container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

### 4. First Aid Measures

#### **First aid measures for different exposure routes**

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.  
Consult a physician.

**Skin contact** Wash skin with soap and water.

**Inhalation** Move to fresh air.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

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

**Main Symptoms** No information available.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

## 5. Fire and Explosion Measures

**Flash Point °F (°C):** > 425°F (> 218°C)

**Suitable Extinguishing Media**

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

**Unsuitable Extinguishing Media** Keep away from heat and sources of ignition.

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact** none.

**Sensitivity to Static Discharge** none.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental Release Measures

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

**Personal precautions** Avoid contact with the skin and the eyes. Use personal protective equipment. For personal protection see section 8. Ensure adequate ventilation.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. Storage and Handling

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin, eyes and clothing. Do not breathe vapors/dust. In case of

insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition. Provide appropriate exhaust ventilation at places where dust is formed. As a rule, at least 10 air changes per hour are recommended at the workplace. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.

#### Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions** Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place.

Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

**Incompatible products** None known based on information supplied.

## 8. Exposure Controls / Personal Protection

#### Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

#### Exposure controls

**Engineering Measures** Showers, Eyewash stations, Ventilation systems. Apply technical measures to comply with the occupational exposure limits. Process enclosure and/or ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face Protection** Avoid contact with eyes. If splashes are likely to occur, wear: Face-shield. Goggles. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substances; this is irrespective of the recommendation involving the wearing of eye protection.

**Skin and body protection** Skin and body protection. Wear protective gloves and protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Wear personal protective equipment.

## 9. Physical and Chemical Properties

#### physical and chemical properties

<b>Physical state</b>	liquid
<b>Appearance</b>	clear, pale yellow liquid
<b>Odor</b>	characteristic
<b>Odor Threshold</b>	No information available

#### Property

<b>pH</b>	6.5
<b>Melting point</b>	N/A

<b>Boiling point/boiling range &gt; flash point</b>	250 °C / 482 °F 218 °C / 425 °F Open cup
<b>evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available No data available
<b>Flammability Limits in Air</b>	
<b>Upper flammability limit</b>	No information available
<b>Lower flammability limit</b>	No information available
<b>Vapor Pressure</b>	< 0.013 kPa (0.1 mm Hg) at 20C
<b>vapor density</b>	> 2 at 101 kPa
<b>specific gravity</b>	No information available N/A
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient: n-octanol/water</b>	No information available
<b>Autoignition temperature</b>	no data available N/A
<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	no data available
<b>Dynamic viscosity</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available

#### other information

<b>Softening point</b>	No information available
<b>molecular weight .</b>	
<b>VOC Content(%)</b>	No information available
<b>Density 1.016</b>	
<b>bulk density</b>	No information available

## 10. Stability and Reactivity

<b>Reactivity</b>	No Data Available
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Hazardous Reactions</b>	None under normal processing
<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible Material</b>	None known based on information supplied.
<b>Hazardous Decomposition Products</b>	May emit toxic fumes under fire conditions.

## 11. Toxicological Information

#### Information on likely routes of exposure

##### **Product Information**

**Inhalation** Avoid breathing vapors or mists.

**Eye contact** Avoid contact with eyes.

**Skin contact** Avoid contact with skin.

**Ingestion** Not an expected route of exposure. Do not taste or swallow.

#### Information on toxicological effects

**Symptoms** No information available.

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

**Sensitization** No information available.

**germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**Specific target organ systemic**

**toxicity (single exposure)**

No information available.

**Specific target organ systemic****toxicity (repeated exposure)**

No information available.

**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

## 12. Ecological Information

**Ecotoxicity****Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects** No information available

## 13. Disposal Considerations

**Disposal:** Dispose of in accordance with local, state, and federal regulations. Products is classified as non-hazardous, however, non-hazardous materials may become hazardous waste upon contact with other products. Refer to "40 CFR 260-299" for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals. According to the European Waste Catalogue, waste codes are application specific, and should be assigned by the user based on the application for which the product is used.

## 14. Transportation Information

**Proper Shipping Name:** Non-Hazardous for Transport

**DOT Hazard Class / Packaging Group:** Not regulated

**Reference:** Not Applicable

**UN/NA Identification Number:** None

**Label:** None Required

**Hazard Symbols:** None

**IATA Hazard Class / Packaging Group:** Not regulated

**IMDG Hazard Class:** Not regulated

**RID /ADR Dangerous Goods Code:** Not regulated

**UN TDG Class/Packaging Group:** Not regulated

**Hazard Identification Number: (HIN):** None

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100-177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

## 15. Regulatory Information

**TSCA (USA – Toxic Substance Control Act):** All components of this product are listed on the U.S. Toxic Substances Control Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume or Polymer Exemption has been granted in accordance with 40 CFR 723.50.

**SARA Title III (USA-Superfund Amendments and Reauthorization Act):** 311/312 Hazard Categories, Acute health, eye irritant, skin irritant.

313 Reportable Ingredients:

(a) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

**CERCLA (USA-Comprehensive Response Compensation and Liability Act)** None

**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:** There is a chemical present (1-Methyl-2-pyrrolidone) known to the state of California to cause cancer or reproductive toxicity.

**CPR (Canadian Controlled Products Regulations):** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulation. WHMIS Classification: D2B

**DSL /NDSL (Canadian Domestic Substances List / Non-Domestic Substance List):** Components of this product identified by CAS number are listed on the DS or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

**EINECS (European Inventory of Existing Commercial Chemical Substances):** Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

**VbK Index:** AllI

## 16. Disclaimer

This data sheet does not constitute an assessment of the workplace risks as required under the provisions of the Health & Safety at Work act and the Control of Substances Hazardous to Health (COSHH).

To the best of our knowledge, the information contained herein is accurate; obtained from sources believed by NLS Products to be accurate. Since the conditions and methods of use of our product are beyond our control, we disclaim any and all liability arising out of the improper use of this product or the information provided herewith.

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