

SAFTY DATA SHEET**XCELPLUS INTERNATIONAL INC****DATE: November 5, 1999****PRODUCT CODE: A-DEP-3104****PRODUCT NAME: 400 Diesel Engine Treatment Kit*****Page 1**

* Kit contains two (2) products: **Product A** 12 oz. Permafused Engine Protection (Formula : PfL – 906)
Product B: 12 oz. Top End Treatment (Formula: DF2-HT4-321-551)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**IDENTIFICATION OF THE TWO PREPARATIONS:****CHEMICAL FAMILY:** Proprietary Mixtures**PRODUCT DESCRIPTION:** **Product A:** Metal Treating Oil Additive **Product B:** Top End Treatment**SUPPLIER:**

BISHOP'S ORIGINAL PRODUCTS, INC.
7111 CLINTON DRIVE
HOUSTON, TEXAS 77020
Telephone: (713) 671-2545 (office hours)
Facsimile: (713) 671-0774

DISTRIBUTED BY:

XCELPLUS INTERNATIONAL, INC.
5041 GENERAL PULLER HWY.
SALUDA, VA. 23149
Telephone: (800) 472-7409
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EMERGENCY TELEPHONE NUMBER: North America (800) 460-3146 (office hours)
Chemtrec (800) 424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components	Cas No.	EINECS	Index No.	Symbol	R / S phrase	Wt%
Product A: Petroleum Distillates, hydro-treated heavy paraffinic	64742-54-7	265-157-1	649-468-00-3	T carc..class 2	R-45 S-53/45	50-70
or Petroleum distillates, solvent de-waxed heavy paraffinic	64742-65-0	265-169-7	649-474-006	T carc. class 2	R-45 S-53 / 54	

*** Product B:**

Light Hydrocarbon Blend	68476-34-6	270-676-1	649-227-00-2	Xn carc.class 3	R-40 S-(2)-36/37	55 – 84
2 – ethyl-hexyl-nitrate	27247-96-7	248-363-8		Xn	R-20/21, 44	7 – 10
					S-15 /23 /24 /25	
Aromatic Naphtha	64742-94-5	265-198-5	649-424-00-3	Xn	R-65 S(2)23 /24 /62	<3

These two (2) formulations are a “Trade Secret”. The additional proprietary components in these two products are not considered hazardous as defined in the OSHA Hazard Communication Standard 29,CFR 1900.1200 or contain components in sufficient concentrations to require a hazard classification for health in accordance with EC Directives.

3. HAZARDS IDENTIFICATION

This product is hazardous under the criteria of the OSHA Hazard Communication Rule, 29 CFR 1900.1200.

Health Hazards: Product A;**Inhalation:** Vapor inhalation under ambient conditions is not normally a problem.**Eye Contact:** May cause Eye Irritation**Skin contact:** Repeated or prolonged contact may cause defatting and irritation. However, based on human experience and available toxicological data, this product is judged not to be an “irritant” by OSHA criteria.

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Ingestion: Product has a low order of acute oral and dermal toxicity, but minute amounts into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death. Do not induce vomiting. Call a physician immediately.

HMIS CLASS: HEALTH 1
HMIS CLASS: FLAMMABILITY .. 1
HMIS CLASS: REACTIVITY 0

PHYSICAL AND CHEMICAL HAZARDS / FIRE AND EXPLOSION HAZARDS

- ?? Low hazard. Material can form combustible mixtures or can burn only upon heating to temperatures at or above the flash point.
- ?? Toxic gases will form upon combustion. See Section 5 "FIRE – FIGHTING MEASURES".

Health Hazards: Product B;

- Inhalation:** Irritation of the respiratory tract.
- Eye Contact:** Eye Irritant
- Skin Contact:** Harmful in contact with skin. (2-ethyl-Hexyl-Nitrate)
- Ingestion:** Irritation of the mucus membranes of throat, esophagus and stomach. Harmful if aspirated into lungs. Do not induce vomiting. Call a physician immediately.

HMIS CLASS: HEALTH 2
HMIS CLASS: FLAMMABILITY .. 2
HMIS CLASS: REACTIVITY 0

PHYSICAL AND CHEMICAL HAZARDS / FIRE AND EXPLOSION HAZARDS

Material can form flammable mixtures upon heating to temperatures at or above the flash point.
Toxic gases will form upon combustion. See Section 5 "FIRE – FIGHTING MEASURES".

4. FIRST AID MEASURES (For Both Products)

INHALATION:

If inhaled, immediately remove the affected victim from exposure. Move to fresh air. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN CONTACT:

Remove contaminated clothing. Wash contaminated areas with soap and water.

INGESTION:

DO NOT INDUCE VOMITING. Give two (2) 16 oz. glasses of water to dilute stomach contents. If vomiting occurs naturally, have victim lean over to avoid aspiration. Get medical attention immediately. NEVER give anything by mouth to an unconscious person.

PRODUCT NAME: 400 Diesel Engine Treatment Kit***Page 3****5. FIRE FIGHTING MEASURES (For Both Products)****FIRE FIGHTING PROCEDURES;****FLASH POINT (METHOD): Product A:** 246 C / 475 F minimum **Product B:** 71.1 C / 160 F**FLAMMABLE LIMITS:** Not established.**EXTINGUISHING MEDIA:** Use dry chemical, foam or carbon dioxide.**HAZARDOUS THERMAL DECOMPOSITION PRODUCTS :** Include fumes, smoke, carbon monoxide, sulfur oxides, aldehydes, oxides of carbon and nitrogen.**SPECIAL FIRE FIGHTING PROCEDURES:** Avoid breathing smoke and vapor. Respiratory and eye protection required for fire fighting personnel. Use water fog only to cool containers and to wash away avoid spraying water directly into containers, due to danger of boil over.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Clothing, rags or similar organic material contaminated with **Product B** and stored in a closed space may undergo spontaneous combustion. Vapor accumulation is possible and flashback can occur with explosive force if vapors are ignited.**6. ACCIDENTIAL RELEASE MEASURES (For both Products)****LAND SPILL:**

Contain spilled liquid with sand, earth or absorbents to prevent migration and entry into sewers or streams.

Small spills may be taken up with dry chemical absorbent.

Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent.

Large spills may require excavation of contaminated soil.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

See also Section 4 "FIRST AID MEASURES" as well as Section 10 "STABILITY AND REACTIVITY".

WATER SPILL

Large spills. Warn other shipping. Notify port or relevant authority and keep public away. Shut off source if possible to do so without hazard. Confine if possible.

Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies. Sinking and / or suitable dispersants may be used in non-confined waters.

See also Section 4 "FIRST AID MEASURES" as well as Section 10 "STABILITY AND REACTIVITY".

7. HANDLING AND STORAGE (For Both Products)**STORAGE TEMPERATURE:****(Deg. C) :** Ambient**TRANSPORT TEMPERATURE:****(Deg. C) :** Ambient**LOADING / UNLOADING TEMPERATURE:****(Deg. C) :** Ambient**VISCOSITY****(cSt) :** ND**STORAGE / TRANSPORT PRESSURE****(kPa) :** Atmospheric**ELECTROSTATIC ACCUMULATION HAZARD :**

Yes, use proper grounding procedure.

USUAL SHIPPING CONTAINERS:

12 oz. Plastic Bottles and 55 gal.drums.

Note 1: Compatibility with plastic material can vary; we therefore recommend that compatibility be tested prior to use.

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Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated place, away for incompatible materials. Do not handle, store or open near an open flame, source of heat or sources of ignition. Material will accumulate static charges, which may cause electrical spark (ignition source). Use proper grounding procedures.

Do not pressurize, cut or weld containers. Empty product containers may contain product residue. Do not reuse empty containers without commercial cleaning or reconditioning.

ADDITIONAL WARNINGS:

Container remains hazardous when empty. Continue to observe all precautions.

8. EXPOSURE CONTROLS / PERSONEL PROTECTION (For Both Products)**ENGINEERING CONTROL MEASURES / VENTILATION:**

EXPOSURE LIMITS: Not established for products. (See Section 2: Composition / Information on Ingredients).

EYE PROTECTION: Chemical goggles for primary protection. For severe exposure add face shield.

PROTECTIVE GLOVES: Resistant to chemical penetration.

RESPIRATORY PROTECTION: Use of respiratory protection is generally not required. However, if use conditions (e.g. elevated temperatures) generate vapors, dust or fumes use NIOSH-APPROVED organic vapor respirators with dust, mist, and fume filters to reduce potential for inhalation exposure. Where exposure potential necessitates a higher level of protection, use a NIOSH-APPROVED positive pressure, pressure demand, air supplied respirator. When using respirator cartridges or canisters, they must be changed frequently (following each use or at the end of the work-shift) to assure breakthrough exposure does not occur.

MECHANICAL VENTILATION: Recommended

LOCAL EXHAUST VENTILATION: At source of heated vapors.

OTHER: If repeated or prolong skin contact or contamination of clothing is likely, chemical resistant protective clothing should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES (For Both Products)

	Product A	Product B
PHYSICAL STATE:	Liquid	Liquid
COLOR:	Purple	Medium Amber
ODOR:	Petroleum	Petroleum
PH:	ND	ND
FREEZE / MELT POINT:	ND	ND
BOILING POINT RANGE:	335 C / 635 F	ND
FLASHPOINT (TCC):	246 C / 475 F	71.1 C / 160 F
VAPOR PRESSURE:	< 0.01mm Hg. @ 20 C	ND
DENSITY (20 deg. C):	7.2 lbs. gal	6.8 lbs. per gal.
SPECIFIC GRAVITY:	0.88	0.82
SOLUBILITY IN WATER:	Negligible	Negligible
EVAPORATION RATE:	ND	ND

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10. STABILITY AND REACTIVITY (For Both Products)

HAZARDOUS POLYMERIZATION :	Will not occur
STABILITY:	Stable
CONDITIONS TO AVOID:	High temperatures, sparks and open flames.
MATERIALS TO AVOID:	Strong oxidizing and reducing agents.

11. TOXICOLOGICAL INFORMATION (For Both Products)**Product A;**

INHALATION: Not determined. However, health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

EYE CONTACT: Eye irritant.

SKIN CONTACT: Long term exposure may cause irritation..

INGESTION: Not determined, but believed to be of a low level of toxicity.

Product B;

INHALATION: Expected to be irritating to respiratory tract. Symptoms of overexposure to vapors include drowsiness, weakness, headache, dizziness and nausea.

EYE CONTACT: Eye irritant.

SKIN CONTACT: Harmful in contact with skin. (2-Ethyl-Hexyl-Nitrate).

INGESTION: Irritation of the mucus membranes of throat, esophagus and stomach. Harmful if aspirated into lungs. Do not induce vomiting. Call a physician immediately.

12. ECOLOGICAL INFORMATION (For Both Products)

Ecological testing has not been conducted on these products as formulated.

13. DISPOSAL CONSIDERATIONS (For Both Products)

The following advice only applies to the products as supplied. Combination with other materials may well indicate another route of disposal. If in doubt, contact local BOP supplier or local authorities.

Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.

Care in any case should be taken to ensure compliance with OSHA, EPA, EC, Federal, State and Local regulations.

These products are NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers.

Both products are ashless and can be burned directly in appropriate equipment.

Both products are suitable for energy recovery in appropriate incinerators.

14. TRANSPORTATION INFORMATION (For Both Products)

DOT DESCRIPTION / PROPER SHIPPING NAME:	Product A	Product B
DOT CLASS:	NR	Fuel Oil No. 2
DOT ID NUMBER:	NR	Combustible Liquid
	NA	NA 1993

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UNITED STATES (SARA (311-312) : Product B: Is subject to the reporting requirements of 40 CFR, Part 370.

EUROPEAN ECONOMIC COMMUNITY LABEL: ND

16. OTHER INFORMATION

This information is based on our present state of knowledge and 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. Such information is to the best of Bishop's Original Products knowledge and believed accurate as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. Bishop's Original Products is not responsible for damages of any nature whatsoever resulting from the use of the product or reliance upon the information and recommendations. It is the user's sole responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.