



1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: TCP Fuel Treatment
CAS Number: Mixture

Company Identification: **Alcor, Inc.**
300 Breesport St. San Antonio, TX 78216
Ph: 800-354-7233 (For product information)
800-535-5053 or 1-352-323-3500 (INFOTRAC: For emergencies)

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Chemical Name	Amount (optional)	CAS Number
Tricresyl Phosphate	10-15%	1330-78-5
Toluene*	40-45%	108-88-3
Naptha	40-45%	64742-88-7
Isopropanol	<5%	67-63-0

*California Prop 65: This product does contain ingredients which are known to the state of California to cause cancer, birth defects, or other reproductive harm.

HAZARDS DISCLOSURE: This product contains known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains known hazardous materials.

3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW – DANGER! EXTREMELY FLAMMABLE LIQUID & VAPOR.
WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.**

HMIS Rating: Health - 2, Flammability - 4, Reactivity - 0
Personal Protection Index – G
NFPA Rating: Health - 2, Flammability - 4, Reactivity - 0
NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme).
Protective Equipment: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER
Because of its chemical-physical features, this product is graded as highly flammable . See Section 5 for further information.

Potential Health Effects

Inhalation:

Inhalation can cause severe irritation of mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, dizziness and vomiting. High concentrations may cause lung damage. An irritant to the nose, throat, and upper respiratory tract. Exposure to high concentrations have a narcotic effect and may cause liver and kidney damage.

Ingestion:

Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD		(BLUE)	2
FLAMMABILITY HAZARD		(RED)	4
PHYSICAL HAZARD		(YELLOW)	0
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
For Routine Industrial Use and Handling Applications			



Skin Contact:

Causes irritation to skin. Symptoms include redness, itching, and pain. Repeated or prolonged contact with the skin has a defatting effect and may cause dryness, cracking, and possibly dermatitis.

Eye Contact:

Causes irritation, redness, and pain.

Chronic Exposure: Chronic overexposure may cause anemia with leukocytosis (transient increase in the white blood cell count) and damage to the liver and kidneys. Dermatitis, skin defatting may also occur with use of this material.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately. Do not induce vomiting.

Skin Contact: Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Fire: Flash point: 32C (90F) CC

Autoignition temperature: 204C (399F).

Flammable limits in air % by volume: lcl: 1.0%; ucl: 6.0%

Flammable Liquid and Vapor! Contact with strong oxidizers may cause fire.

Explosion: Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Sealed containers may rupture when heated. Sensitive to static discharge.

Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide. Water may be ineffective. Water spray may be used to keep fire exposed containers cool.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures. Vapors can flow along surfaces to distant ignition source and flash back.

6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.



7. HANDLING AND STORAGE

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

HANDLING (PERSONNEL): Handle in accordance with good hygiene and safety procedures. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. When transferring materials ground and bond containers, use spark proof tools and explosion proof equipment. Since empty containers contain product residue, follow all hazard warnings and precautions even after container is emptied. Keep away from sources of ignition.

STORAGE PRECAUTIONS: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Avoid dust dispersal. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Airborne Exposure Limits:

-ACGIH Threshold Limit Value (TLV): in ppm (TWA), A4 - Not classifiable as a human carcinogen.	
Tricresyl Phosphate 1330-78-5	0.1
Toluene 108-88-3	50
Naphtha 64742-88-7	100
Isopropanol 67-63-0	300

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with organic vapor cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres. See also 23 CFR1910.134.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid	COLOR: Amber
ODOR: Strong Solvent, hydrocarbon type odor	SOLID CONTENT % (± 1): N/D
SOLUBILITY IN WATER: Insoluble	VISCOSITY: N/A
SPECIFIC WEIGHT: 0.841 (g/ml)	PH: N/A
MELTING/FREEZING POINT: N/D	BOILING POINT: N/D
EVAPORATION RATE (BuAc=1): N/D	FLASH POINT: 32C (90F)
AUTOIGNITION TEMPERATURE: 204C (399F)	VAPOR DENSITY (Air=1): 3.3
% VOLATILES BY VOLUME @ 21°C (70°F): 100	VAPOR PRESSURE (mm Hg): N/D @ 20°C (68°F)
COMBURENT PROPERTIES: No	PARTITION COEFFICIENT (n-octanol/water): N/A



10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage. Heat will contribute to instability. Slowly decomposed by moisture.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Avoid heat, flame and other sources of ignition. Contact with nitrates, strong oxidizers, strong alkalis, or strong acids may cause fire and explosions. Will attack some forms of plastic, rubber, and coatings.

Conditions to Avoid: No information found.

11. TOXICOLOGICAL INFORMATION

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Vapor inhalation may moderately irritate the upper respiratory tract. Contact with skin may cause slight irritation. Ingestion may cause health problems including stomach pain and sting, nausea and sickness.

This product may have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, and narcosis.

-----\Cancer Lists\-----

Ingredient	---NTP Carcinogen---		
	Known	Anticipated	IARC Category
Tricresyl Phosphate (1330-78-5)	No	No	None
TOLUENE (108-88-3)	No	No	None
NAPHTHA (64742-88-7)	No	No	None
ISOPROPANOL (67-63-0)	No	No	None

12. ECOLOGICAL INFORMATION

Environmental Fate:

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is not expected to leach into groundwater. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals.

Environmental Toxicity:

This material is expected to be very toxic to aquatic life. The LC50/96-hour values for fish are less than 15 mg/l.

13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.



14. TRANSPORTATION INFORMATION

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packaging or in packaging made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Domestic (Land, D.O.T.)

PRODUCT LABEL: TCP Fuel Treatment
UN NUMBER: 1993
D.O.T. HAZARD CLASS: 3
PACKING GROUP: II
D.O.T. SHIPPING NAME: Flammable Liquid N.O.S.
PRODUCT RQ (LBS): N/A
SPECIAL PROVISIONS: 640D

International (Water, I.M.O.)

IMO CLASS: 3
PRODUCT LABEL: TCP Fuel Treatment
UN NUMBER: 1993
D.O.T. HAZARD CLASS: 3
PACKING GROUP: II
D.O.T. SHIPPING NAME: Flammable Liquid N.O.S.
PRODUCT RQ (LBS): N/A
EMS: F-E, S-E

International (Air, I.C.A.O.)

IATA: 3
PRODUCT LABEL: TCP Fuel Treatment
UN NUMBER: 1993
D.O.T. HAZARD CLASS: 3
PACKING GROUP: II
D.O.T. SHIPPING NAME: Flammable Liquid N.O.S.
Information reported for product/size: 4L

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

CARGO:	Packing Instructions:	307	Maximum Quantity:	60 L
PASS.:	Packing Instructions:	305	Maximum Quantity:	4 L
	Special Instructions:	A72		

15. REGULATORY INFORMATION

FEDERAL REGULATORY STATUS: OSHA Classification: Product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Chemical Weapons Convention: No **TSCA 12(b):** Yes **CDTA:** No

SARA 311/312: Acute: YES Chronic: YES Fire: YES Pressure: No
Reactivity: No (Mixture / Liquid)

Australian Hazchem Code: None allocated.



Poison Schedule: None allocated.

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). Other inventory lists: ENCS (Japan), Korea, Australia, China (Draft), PICCS (Philippines), Japan (ENCS).

16. OTHER INFORMATION

Label Hazard Warning:

DANGER! FLAMMABLE LIQUID AND VAPOR. HARMFUL OR FATAL IF SWALLOWED OR INHALED. AFFECTS CENTRAL NERVOUS SYSTEM. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CHRONIC EXPOSURE CAN CAUSE ADVERSE LIVER, KIDNEY, AND BLOOD EFFECTS. FLAMMABLE LIQUID AND VAPOR.

Label Precautions:

Keep away from heat, sparks and flame. Avoid breathing vapor. Keep container closed. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person. In all cases, get medical attention.

Prepared By: Donato Polignone
Approval Date: October 8, 2008

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Supersedes Date: May 6, 2005

ADDITIONAL INFORMATION:

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-1998).

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END OF MSDS