

TRICARD

TRIANGLE CHEMICAL COMPANY – P.O. BOX 4528, MACON, GEORGIA 31213
 CARDINAL CHEMICALS, INC. – KINSTON, NC

IN CASE OF EMERGENCY, CALL CHEMTREC
 UNITED STATES: 1-800-424-9300
 INTERNATIONAL: 1-202-483-7616

MATERIAL SAFETY DATA

1. PRODUCT IDENTIFICATION

PRODUCT NAME: **CROSSFIRE**
 SYNONYMS: Crop Oil Concentrate
 CHEMICAL FAMILY: Petroleum Hydrocarbon
 GENERAL DESCRIPTION: Agricultural Oil

2. HAZARDOUS INGREDIENTS

OSHA REGULATED

COMPONENT	CAS. NO	WT%	EXPOSURE LIMITS
-----------	---------	-----	-----------------

None known

Maximum of 1 ppm Ethylene Oxide (EO) (75-21-8) May be present in the product.
 The OSHA PEL and ACGIH TLV for EO is 1 ppm.

3. EFFECTS OF OVEREXPOSURE:

EYE: Direct contact with material or exposure to vapors is not expected to cause irritation.

SKIN: Direct contact with material or exposure to vapors is not expected to cause irritation. Prolonged or repeated skin contact may cause drying, cracking or dermatitis.

INHALATION: High concentrations of vapors or mist may irritate the respiratory tract. Prolonged or repeated inhalation of oil mist may cause oil pneumonia, lung tissue inflammation and fibrous tissue formation.

ORAL: May cause throat irritation, nausea, vomiting and diarrhea. Aspiration during ingestion may cause lung injury or possible death.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Overexposure to any chemical may result in enhancement of pre-existing adverse medical condition and allergic reactions.

4. EMERGENCY FIRST AID

Call a poison control center or doctor immediately for treatment advice.

IF SWALLOWED: Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Have the product container with you when calling a poison control center or doctor, or going for treatment.

5. REACTIVITY DATA

STABILITY:	Stable under normal temperatures and pressures.
CONDITIONS TO AVOID:	Avoid intense heat, sparks or flame.
POLYMERIZATION:	Not known to occur under normal temperatures and pressures.
INCOMPATIBILITY:	Strong oxidizing agents.
DECOMPOSITION:	Combustion may produce carbon monoxide and asphyxiants.

6. PHYSICAL PROPERTIES

Appearance and Odor:	Amber liquid, little odor
Boiling Point:	Approximately 760 MM HG with F
Melting Point:	Not Available
Vapor Pressure:	NA
Specific Gravity:	0.870 ± 0.05
Vapor Density:	NA
% Volatile (by vol.):	<3
Octanol/H ₂ O Partition COEF.:	NA
pH:	5.6
Saturation in Air (by vol.):	NA
Evaporation Rate:	NA
Solubility in Water:	(% by vol.) Soluble

7. NFPA HAZARD RATING (National Fire Protection Association)

Flammability	Health:	Exposure could cause irritation but only minor residual injury even if no treatment is given.
1		
Health 1	0 Instability	Flammability: Must be preheated before ignition can occur.
—		Instability: Normally stable, even under fire exposure conditions, and are not reactive with water.
Special Hazard		

8. FIRE AND EXPLOSION HAZARD INFORMATION

FLASHPOINT:	>200°F
FLAMMABLE LIMITS:	Not established
EXTINGUISHING MEDIA:	Carbon dioxide, dry chemical powder, chemical foam or water fog.
FIRE FIGHTING:	Wear self-contained breathing apparatus when fire fighting in confined space.
UNUSUAL FIRE HAZARD:	Burning may produce carbon monoxide. Decomposition or combustion products may be toxic. Empty containers may retain residue and may be dangerous. Heated containers may rupture.

9. SPECIAL PRECAUTIONS

HANDLING AND STORAGE:	Maintain good housekeeping practices and clean up spills promptly. NFPA Class IIIB storage. Never siphon by mouth.
-----------------------	--

10. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None required for normal use.
VENTILATION: Normal room ventilation (mechanical) should be satisfactory.
PROTECTIVE GLOVES: PVC-coated.
EYE PROTECTION: Wear goggles or a face shield.
OTHER PROTECTION: Where spills and splashes are likely, wear protective clothing. Eye wash and safety shower should be available.

11. SPILL OR LEAK PROCEDURES

SPILLS OR RELEASES: Small Spills: Flush the area thoroughly with water and scrub to remove residue.
Large Spills: Contain spill, cover with inert absorbent and transfer to waste disposal container.

WASTE DISPOSAL: Disposal must be made in accordance with applicable governmental regulations. Do not flush to drain/storm sewer.

CONTAINER DISPOSAL: Triple rinse (or equivalent) adding rinse water to application tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by local regulations.

12. REGULATORY INFORMATION

COMPOUNDS WHICH REQUIRE REPORTING UNDER SARA TITLE III

Sara Regulated Compounds	Section	CAS NO.	Percent
--------------------------	---------	---------	---------

Compounds which require reporting under SARA Title III			
No compounds present in quantities which are regulated.			

13. OTHER INFORMATION

WARNING! This product contains a detectable amount of ethylene oxide, which is known to the State of California to cause cancer and/or reproductive toxicity.

Ethoxylated products may contain residual amounts of ethylene oxide (EO) which can accumulate in the container headspace and be released into the ambient environment. This process is enhanced when the product is agitated, as during tank car loading and unloading, and blending operations. Ethylene oxide causes tumors in laboratory animals. The Occupational Safety and Health Administration (OSHA) Permissible Exposure Level (PEL) for EO is 1 ppm for an eight-hour time weighted average exposure. The standard regulates occupational exposure to EO from all sources, including products containing residual EO. It is the responsibility of the employer to comply with OSHA ethylene oxide standard (29) CFR 1910.1047).

The recommendation for safe handling and protection procedures is believed to be generally suitable for the standard uses of this compound. However, each user should identify his intended uses of this material and determine whether they are appropriate. All data included in this document is released as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose. No warranty, either expressed or implied, is hereby made, nor do we give permission, inducement, or recommendations to practice any patented invention without a license. All data is offered for consideration, investigation and verification purposes only.