



SAFETY DATA SHEET

PRODUCT

Fuel Right[®] Concentrated Formula
Fuel Oil and Diesel Fuel Conditioner - aka "Fuel Right 30K"

Last Revised on 8/21/2013

Emergency Telephone Number: CHEMTREC (800) 424-9300

SECTION I. PRODUCT IDENTIFICATION

TRADE NAME: Fuel Right[®] Concentrated Formula (also "30K") Diesel Fuel and Fuel Oil Conditioner

DESCRIPTION: A hydrocarbon solution of cyclic and aliphatic amino compounds

NFPA 704M/HMIS RATING: 2/2 HEALTH 2/2 FLAMMABILITY 1/1 REACTIVITY 0 OTHER
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

SECTION II. HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin, and Inhalation

EYE CONTACT: Corrosive to the eyes with possible permanent damage depending on the length of exposure and on the first aid action taken.

SKIN CONTACT: May be irritating to sensitive areas of the skin if not removed promptly.

INGESTION: Can be harmful.

INHALATION: Inhalation of vapor may be harmful.

COMBUSTIBLE LIQUID

LABEL HAZARDS IDENTIFICATION SHOULD READ AS FOLLOWS:

CAUTION: COMBUSTIBLE MIXTURE. HARMFUL OR FATAL IF SWALLOWED. Contains amines with a petroleum distillate as carrier. If swallowed do not induce vomiting, but rather drink milk or water and see a doctor at once. Wash off of skin with soap and water. Flush from eyes with water for at least 15 minutes. If skin or eye irritation persists, see a doctor. KEEP AWAY FROM SMALL CHILDREN.

SECTION III. COMPOSITION/INGREDIENTS

Our hazard evaluation has identified the following chemical ingredients as hazardous. One or more is being claimed as a trade secret under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section XV for the nature of the hazard(s).

INGREDIENTS	CAS #	APPROX. %
heavy aromatic naphtha	64742-94-5	30-40
a cyclic amino compound	trade secret	50-60
an aliphatic diamine	trade secret	15-20
naphthalene	91-20-3	1-2



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SECTION IV. FIRST AID

EYES: Immediately flush for at least 15 minutes while holding eyelids open. If irritation persists see a doctor.

SKIN: Immediately wash with soap and water. For a large splash, flood body under a shower with soap and warm water. If skin irritation that follows is severe or persistent see a doctor.

INGESTION: Do not induce vomiting. Give water or milk. See a doctor at once.

INHALATION: Remove to fresh air. Treat symptoms. If discomfort persists see a doctor.

NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition. Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

SECTION V. FIRE FIGHTING

EXTINGUISHING MEDIA: Based on the NFPA guide, use dry chemical, foam, carbon dioxide or other extinguishing agent suitable for Class B fires. Use water to cool containers exposed to fire. For large fires, use water spray or fog, thoroughly drenching the burning material.

UNUSUAL FIRE AND EXPLOSION HAZARD: Containers exposed in a fire should be cooled with water to prevent vapor pressure buildup leading to a rupture.

FLASH POINT: 149 Degrees F (65 C) minimum, 156° F (69 C) typical.

FLAMMABLE LIMITS: LEL: 1.8 UEL: 11.7 @ 77° F (25 C) (estimate – based on most flammable ingredient)

AUTOIGNITION TEMPERATURE: 830° F (443 C) (estimate – based on most flammable ingredient)

SECTION VI. ACCIDENTAL RELEASE

IN CASE OF TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT (800) 424-9300.

SPILL CONTROL AND RECOVERY: For small liquid spills, contain with absorbant material such as paper towels or oil-absorbant granules. Dispose of in an approved landfill or incinerator.

For large liquid spills, dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section XV. Avoid direct contact with and don't walk through spilled material.

DISPOSAL: If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D. Can be incinerated in accordance with local, state and federal regulations.



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SECTION VII. HANDLING AND STORAGE

HANDLING: When handling or dispensing small quantities of this product from a bottle, no special protective equipment is required but reasonable care should be taken to avoid contact of the product with skin and eyes. If some product does contact skin, wash off promptly with soap and water. This is particularly important for sensitive areas, such as between the fingers, back of the hand, wrist, etc. Do not use alcohol or other solvents to remove from skin, as that may promote absorption into the skin.

When handling large quantities of this product, wear a full face shield and/or chemical splash goggles, impermeable gloves, and a plastic or rubber apron. Nitrile rubber gloves are preferred. A full slicker suit is recommended if gross exposure is likely. The availability of an eye wash fountain and safety shower is also recommended.

If clothing becomes contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

STORAGE: Store in sealed containers in a cool, dry location. For maximum shelf life (> 1 year), store in a refrigerator or freezer. Do not store with strongly oxidizing chemicals such as bleach, chlorine, fluorine, nitric acid, concentrated sulfuric acid or peroxides.

SECTION VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

PHYSICAL CONTACT WITH PRODUCT: Handle with care to avoid physical contact with the product, and especially avoid eye contact. Wear appropriate protective equipment as described in Section VII above if splashing or spilling is likely.

BREATHING OF VAPORS: General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors or mists may be released. If it is possible to generate significant vapors or mists, a NIOSH approved respirator is recommended. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended.

EXPOSURE LIMITS: (Note: Exposure Limits are not additive)

INGREDIENT	ACGIH TLV		OSHA PEL		AIHA WEEL	
	TWA	STEL[C]	TWA	CEILING	8 HR TWA	Short-term TWA [C]
Heavy aromatic naphtha	N/D	N/D	N/D	N/D	N/D	N/D
A cyclic amino compound	N/D	N/D	N/D	N/D	N/D	N/D
An aliphatic diamine	N/D	N/D	N/D	N/D	N/D	N/D
Naphthalene	10 ppm	15 ppm	10 ppm	15 ppm	N/D	N/D



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SECTION VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

EYE AND SKIN PROTECTION: Eye protection is necessary to protect against potential eye contact, leading to irritation or permanent injury. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes or mists. For handling smaller quantities of this product, safety glasses with side shields may be adequate. When handling larger quantities, wear a full face shield and/or chemical splash goggles, impermeable gloves (nitrile gloves preferred), and a protective plastic or rubber apron. A full slicker suit is recommended if gross exposure is likely.

The availability of an eye wash fountain and safety shower is recommended.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOR: Pale yellow to light amber

DENSITY: 935-959 g/liter (7.6-7.8 lbs./US gal)

SPECIFIC GRAVITY: 0.93-0.95 @ 20° C (68° F)

FLASH POINT: 69° C (156° F)

ODOR: Hydrocarbon/Fish Oil/Ammonia

PERCENT VOLATILE: N.D.

SOLUBILITY IN WATER: Partially soluble

POUR POINT: Approx. -9° C (16° F) when new*

VISCOSITY: 12-15 cst @ 20° C (68° F) [ASTM D445]

NOTE: These physical properties are typical values for this product. *Pour Point increases with age.

SECTION X. STABILITY AND REACTIVITY

STABILITY: Normally stable.

CONDITIONS TO AVOID: Open flames, sparks, static discharge, heat and other potential ignition sources.

INCOMPATIBILITY: Contact with strong oxidizers can generate heat, fires, explosions and toxic fumes.

THERMAL DECOMPOSITION: When burned, CO, CO₂ and NO_x may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

SECTION XI. TOXICITY

Toxicology studies have not been conducted on this product, but a review of available data on the ingredients indicates that the product is not likely to be either a mutagen or a teratogen.

SECTION XII. ECOLOGY

ENVIRONMENTAL HAZARDS: This product is toxic to fish. Do not discharge into lakes, streams, ponds or public waters. Do not contaminate water by cleaning of equipment or disposal of wastes.

AQUATIC TOXICITY RATING: This product has not been rated as to degree of toxicity, but ingredients listed in Section III are known to be rated TOXIC with LC50 as low as 1 ppm determined with various species of fish and Daphnia magna.



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SECTION XIII. DISPOSAL

If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D. Can be incinerated in accordance with local, state and federal regulations.

METAL OR PLASTIC CONTAINERS: Triple rinse (or equivalent) with a detergent/water solution – preferably hot. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. If burned, stay out of the smoke.

SECTION XIV. TRANSPORTATION

PROPER SHIPPING NAME/HAZARD CODE: In U.S. is regulated only when shipped in containers exceeding 119 US gallons capacity. Shipping papers for non-bulk containers should read:

Not Regulated per IAW Title 49 CFR Part 173.150 and IATA 3.3.11.1

NMFC No. 155150

For bulk containers within U.S. is a Combustible Liquid n.o.s. NMFC No. 155250-1 (Fuel Additive, Combustible)

SECTION XV. REGULATORY

FEDERAL REGULATIONS:

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our hazard evaluation, the ingredients in this product are hazardous for the following reasons:

heavy aromatic naphtha – irritant, combustible
cyclic amino compound and aliphatic diamine – eye and skin irritants

CERCLA/SUPERFUND, 40 CFR 117, 302:

Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III):

SECTION 302 – EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):

This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.



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SECTION XV. REGULATORY (Continued)

SECTIONS 311 AND 312 – MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

X Immediate (acute) health hazard	-- Sudden release of pressure hazard	X Fire hazard
-- Delayed (chronic) health hazard	-- Reactive hazard	

SECTION 313 – LIST OF TOXIC CHEMICALS (40 CFR 372):

This product does not contain ingredients on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D:

Consult Section 11 for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311):

None of the ingredients in this product is specifically listed.

CLEAN AIR ACT, Sec. 111 (40 CFR 60), Sec. 112 (40 CFR 61, 1990 Amendments), Sec. 611 (40 CFR 82, CLASS I and II Ozone Depleting Substances):

This product does not contain ingredients covered by the Clean Air Act.

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

This product does not contain any chemicals which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS:

This product does not contain ingredients listed on the Michigan Critical Materials Register.

INTERNATIONAL REGULATIONS:

WHMIS HAZARD CLASSIFICATIONS:

B3 - Combustible Liquid

D2B - Toxic (skin irritant, eye irritant, skin sensitizer)

SECTION XVI. OTHER

This product safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operation. Please call the phone number listed below for any further information.

PREPARED BY: Robert E. Tatnall, President, Fairville Products, Inc.

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