



MATERIAL SAFETY DATA SHEET

ZAK FUEL INDUCTION CLEANER

PRODUCT CODE: FM620

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ZAK Fuel Induction Cleaner
Synonyms: None
Supplier: ZAK Products, 720 Industrial Blvd. #400, Grapevine, TX 76051
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300
Information Telephone: ZAK Products 1-800-514-6011 During normal business hours CST 817-645-6088

Date Printed: 09/15/2003

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLV STEL
Xylene 1330-20-7	58-62	100 ppm	Not Known	100 ppm	150 ppm
Glycol Ether PM 107-98-2	15-25	100 ppm	150 ppm	100 ppm	150 ppm
N-methyl pyrrolidone 872-50-4	8-12	None Established	None Established	None Established	None Established
Hydrotreated light distillates 64742-47-8	0-2.5	None Established	None Established	None Established	None Established
Stoddard Solvent 8052-41-3	0-2.5	500 ppm	None Established	100 ppm	None Established

3. HAZARDS IDENTIFICATION

Emergency Overview: Harmful or fatal if swallowed. Harmful if inhaled. Harmful if absorbed through the skin. May cause irritation to skin and eyes. May irritate the lungs. Affects central nervous system.

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Ingestion: DO NOT INDUCE VOMITING. Give nothing by mouth. Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): 79F (lowest component)
Flash Point Method: TAG Closed Cup
Flammable Limits in Air - Lower (%): NT
Flammable Limits in Air - Upper (%): Not Determined
Autoignition Temperature °F(°C): Not Determined
Extinguishing Media: Carbon dioxide. Dry chemical. Alcohol foam.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may cause flash fire. Cool container with water spray.

Hazardous Combustion Products: Carbon Dioxide. Carbon Monoxide. Fumes and Smoke. Oxides of Nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.

Spill Procedures: Wear protective equipment specified. Only trained and qualified personnel should handle any spilled or leaked product. Avoid all sources of ignition; heat, sparks and open flames. Ventilate spill area. Soak up material with absorbent and place in chemical waste container. Use non-sparking tools and equipment. Increase area ventilation. Remove sources of ignition. Wear proper protective equipment as specified in the protective equipment section. Use non-sparking tools and equipment. Isolate hazard area, keeping unnecessary and unprotected personnel from entering.

Environmental Precautions: Keep away from drains.

7. HANDLING AND STORAGE

Handling and Storage: Use ground strap. Avoid contact with skin and eyes. Use only in a well ventilated area. Warning: Flammable. Do not inhale vapors. Keep away from heat and open flame. Avoid excessive storage temperature

MATERIAL SAFETY DATA SHEET

Product Name: ZAK Fuel Induction Cleaner
Product Code: FM620
Date Printed: 09/15/2003

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Exhaust ventilation.
Eyes: Wear safety glasses or goggles to protect against exposure.
Skin Protection: Use chemical resistant gloves for prolonged skin contact.
Respiratory Protection: Use in a well ventilated area. Use approved NIOSH respiratory protection if TLV exceeded..... Or over exposure is likely.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Odor: Not Determined **pH Value:** Not Determined
Vapor Pressure: Not Determined **Vapor Density (Air=1):** Not Determined
Boiling Point (°F): 136F **Melting/Freezing Point:** Not determined.
Solubility in Water: APPRECIABLE **Bulk Density at 20°C:** Not Determined
Molecular Weight: Not Determined **Evaporation Rate:** Not Determined
Viscosity: Not determined. **Specific Gravity (H2O=1):** Not determined.
VOC Content(%): 100 **Decomposition Temperature:** Not Known

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.
Conditions to Avoid: Keep away from heat, sparks and flame. Extreme heat. Avoid contact with heat, sparks, open flame, and static discharge.
Materials to Avoid: Contact with oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide. Oxides of nitrogen. Smoke and Fumes.
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Xylene 1330-20-7	58-62	Inhalation	Rats	LC50 5000 ppm
Glycol Ether PM 107-98-2	15-25	Inhalation	Rats	LC50 10000 ppm/5 hr
N-methyl pyrrolidone 872-50-4	8-12	Inhalation	Rats	LC50 >5 mg/L (aerosol) 4 hrs
Hydrotreated light distillates 64742-47-8	0-2.5	Inhalation	Rats	Not known.
Stoddard Solvent 8052-41-3	0-2.5	Inhalation	Rats	Not known.

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Xylene 1330-20-7	58-62	Group 3 (not classifiable)	Not Listed	Not Listed
Glycol Ether PM 107-98-2	15-25	Not Listed	Not Listed	Not Listed
N-methyl pyrrolidone 872-50-4	8-12	Not Listed	Not Listed	Not Listed
Hydrotreated light distillates 64742-47-8	0-2.5	Not Listed	Not Listed	Not Listed
Stoddard Solvent 8052-41-3	0-2.5	Not Listed	Not Listed	Not Listed

MATERIAL SAFETY DATA SHEET

Product Name: ZAK Fuel Induction Cleaner
Product Code: FM620
Date Printed: 09/15/2003

12. ECOLOGICAL INFORMATION 13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.
Waste Management: Not determined.
 Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:
Proper Shipping Name: ORM-D CONSUMER COMMODITY
Hazard Class: ORM-D
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable
IMDG:
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.
Hazard Class: 3.3
Hazard Subclass: not determined
UN No.: UN 1993
Packing Group: II
Marine Pollutant: Not determined.

15. REGULATORY INFORMATION

US Federal Regulations:

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Xylene 1330-20-7	58-62	Listed	Not Listed	100	NA
Glycol Ether PM 107-98-2	15-25	Not Listed	Not Listed	NA	NA
N-methyl pyrrolidone 872-50-4	8-12	Listed	Not Listed	NA	NA
Hydrotreated light distillates 64742-47-8	0-2.5	Not Listed	Not Listed	NA	NA
Stoddard Solvent 8052-41-3	0-2.5	Not Listed	Not Listed	NA	NA

SARA 311/312 Hazard Categories: Not Determined.

State Regulations:

Ingredient/CAS No.	wt. %	California Prop. 65 Cancer list	California Prop. 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Xylene 1330-20-7	58-62	Not Listed	Not Listed	Not Listed	Not Listed
Glycol Ether PM 107-98-2	15-25	Not Listed	Not Listed	Not Listed	Not Listed
N-methyl pyrrolidone 872-50-4	8-12	Not Listed	Listed (June 15, 2001)	Not Listed	Not Listed
Hydrotreated light distillates 64742-47-8	0-2.5	Not Listed	Not Listed	Not Listed	Not Listed
Stoddard Solvent 8052-41-3	0-2.5	Not Listed	Not Listed	Not Listed	Not Listed

U.S. TSCA: The components of this product are listed on the TSCA Inventory.

MATERIAL SAFETY DATA SHEET

Product Name: ZAK Fuel Induction Cleaner
Product Code: FM620
Date Printed: 09/15/2003

16. OTHER INFORMATION

General Notes: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

Disclaimer:

The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.