

Material Safety Data Sheet

GASOLINE FUEL ADDITIVE

Catalog Number: MSGA

3/25/06

Alt, Inc.

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InfoTrac:

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A. Product Identification

Synonyms: ALKYL AMINES

Chemical Name: Mixture

Chemical Family: Hydrocarbons

Chemical Formula: Mixture

CAS Reg. No.: 68955-53-3

Product No.: 042503B

Product and/or Components Entered on EPA's TSCA Inventory: YES

This product is in U.S. commerce, and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals; hence, it may be subject to applicable TSCA provisions and restrictions.

B. Components

Ingredients	CAS Number	% By Wt.	OSHA PEL	ACGIH TLV
Paraffinic hydrocarbons	64742967	> 55	NE	NE
Olefinic hydrocarbons	Various	< 5	NE	NE
Aromatic hydrocarbons	Various	> 27	NE	NE
may include Benzene	71432	< 50 ppm	1 ppm*	10 ppm
Borates	5419-55-6	< 5,000ppm		

* Work operations exempted by the Benzene Standard, 29 CFR 1910.1028, will have a 10 ppm 8 hour TWA .

C. Personal Protection Information

Ventilation: Use adequate ventilation.

Respiratory Protection: Not generally required unless needed to prevent respiratory irritation. In case of spill or leak resulting in unknown concentration, use NIOSH/MSHA approved supplied air respirator.

Eye Protection: For splash protection, use chemical goggles and face shield.

Skin Protection: Use gloves resistant to the material being used. (ie. neoprene or Nitrile rubber). Use protective garments to prevent excessive skin contact.

NOTE: Personal protection information shown in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

D. Handling and Storage Precautions

Do not get in eyes, on skin or on clothing. Avoid breathing vapors, mist, fume or dust. Do not swallow. May be aspirated into lungs. Wear protective equipment and/or garments described

in Section C if exposure conditions warrant. Wash thoroughly after handling. Launder contaminated clothing before reuse. Use with adequate ventilation. Keep away from heat, sparks, and flames. Store in a well ventilated area. Store in a closed container. Bond and ground during transfer.

E. Reactivity Data

Stability:	Stable
Conditions to Avoid:	Not Established
Incompatibility (Materials to Avoid):	Oxygen and strong oxidizing agents
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	OPEN FLAME, TEMPS OVER 120 F.
Hazardous Decomposition Products:	Carbon and sulfur oxides and various Hydrocarbons formed when burned.

F. Health Hazard Data :

Recommended Exposure limits:	Not Established. May cause defatting of the skin, resulting in dermatitis. Dermal LD50 for diesel fuel is > 5 ml/kg (rabbit).
Inhalation:	May cause irritation to nose, throat or lungs. Headache, nausea, dizziness, unconsciousness may occur. CONSULT A PHYSICIAN IMMEDIATELY.
Ingestion:	May cause irritation to intestines. May cause headache, nausea, and unconsciousness. If swallowed, may be aspirated resulting in inflammation and possible fluid accumulation in the lungs. Oral LD50 for diesel fuel is 9 ml/kg (rat).

Subchronic and Chronic Effects of Overexposure:

Combustion, a normal use of diesel fuel, results in an exhaust that has been associated with lung cancer in animals. There is limited evidence to suggest an association between occupational exposure to diesel exhaust and lung cancer in humans. Carbon monoxide inhalation may cause carboxyhemoglobinemia. Chronic exposure to carbon monoxide causes fatigue, poor memory, loss of sensation in fingers, visual disturbances and insomnia. Carboxyhemoglobinemia is frequently misdiagnosed as flu. Sensitive subpopulations to the inhalation of carbon monoxide exist. Carbon monoxide displaces oxygen in the bloodstream and therefore, can adversely effect people with preexisting heart disease, pregnant women and smokers.

Other Health Effects:

No known applicable information.

Health Hazard Categories:

	Animal	Human		Animal	Human
Known Carcinogen	___	___	Toxic	___	___
Suspect Carcinogen	___	___	Corrosive	___	___
Mutagen	___	___	Irritant	<u>X</u>	<u>X</u>
Teratogen	___	___	Target Organ Toxin	<u>X</u>	<u>X</u>
Allergic Sensitizer	___	___	Specify Lung Aspiration Hazard		
Highly Toxic	___	___			

First Aid and Emergency Procedures:

Eye: Flush eyes with running water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

Skin: Immediately wash skin with soap and water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

Inhalation: Remove from exposure. If breathing is difficult, give oxygen. If breathing ceases, administer artificial respiration followed by oxygen. Seek immediate medical attention.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

Note to Physician: Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

G. Physical Data

Appearance:	Pale yellow liquid
Odor:	Mild
Boiling Point:	200 F.
Vapor Pressure:	(mm Hg.) 0.40
Vapor Density (Air = 1):	>3
Solubility in Water:	none
Specific Gravity (H ₂ O = 1):	0.85 at 60/60F (16/16C)
Percent Volatile by Volume:	100
Evaporation Rate (Butyl Acetate=1):	<1
Viscosity:	32.6-40.0 SuS @ 100 deg.F.

H. Fire and Explosion Data

Flash Point (Method Used):	> 181 F >
Flammable Limits (% by Volume in Air):	LEL Not Established UEL Not Established
Fire Extinguishing Media:	Dry chemical, foam or carbon dioxide CO ₂
Special Fire Fighting Procedures:	Evacuate area of all unnecessary personnel. Shut off source, if possible. Use NIOSH/MSHA approved self contained breathing apparatus and other protective equipment and/or garments described in Section C if conditions warrant. Water fog or spray may be used to cool exposed containers and equipment. Do not spray water directly on fire product will float and could be reignited on surface of water.

Fire and Explosion Hazards:	Carbon and sulfur oxides and various hydrocarbons formed when burned.
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I. Spill, Leak and Disposal Procedures

Precautions Required if Material is Released or Spilled: Evacuate area of all unnecessary personnel. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Shut off source, if possible and contain spill. Protect from ignition. Keep out of water sources and sewers. Absorb in dry, inert material (sand, clay, etc.). Transfer to disposal drums using non sparking equipment. Waste Disposal (Insure Conformity with all Applicable Disposal Regulations): Incinerate or place in permitted waste management facility.

J. DOT Transportation

Shipping Name: Chemical
DOT: Non Regulated
ID Number:
Label: None
Marking:
Placard: None
Hazardous Substance/RQ: Not applicable
Shipping Description: Chemical
Packaging References: This product is unregulated by DOT when shipped in non bulk quantities.

K. RCRA Classification Unadulterated Product as a Waste Ignitable (D001) Prior to disposal, consult your environmental contact to determine if TCLP (Toxicity Characteristic Leaching Procedure, EPA Test Method 1311) is required. Reference 40 CFR Part 261.

L. Protection Required for Work on Contaminated Equipment. Contact immediate supervisor for specific instructions before work is initiated. Wear protective equipment and/or garments described in Section C if exposure conditions warrant.

M. Hazard Classification

This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

Combustible Liquid Flammable Aerosol Oxidizer
 Compressed Gas Explosive Pyrophoric
 Flammable Gas Health Hazard (Section F) Unstable
 Flammable Liquid Organic Peroxide Water Reactive
 Flammable Solid Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

N. Additional Comments

SARA 313

This product contains the following chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. (See Section B). Benzene

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