

MATERIAL SAFETY DATA SHEET

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MSDS-0001






Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards

MSDS Revision: 1.0

MSDS Revision Date: 08/01/2007

1. PRODUCT IDENTIFICATION

CHEMICAL RESPONSE CARD: 34

1.1	Product Name:	MACH 3 SUPER ECOFUEL SAVER – HD	RESPONSE TEAM PPE:				
1.2	Chemical Name:	See ingredients listed in Section 2	WHMIS:				
1.3	Synonyms:	None reported by the manufacturer	HEALTH:	2			
1.4	Trade Names:	Mach 3 Super EcoFuel Saver - HD	FLAMMABILITY:	2			
1.5	Product Use:	Fuel Additive	REACTIVITY:	0			
1.6	Manufacturer's Name:	Mach 3 Manufacturing, LLC	PERSONAL PROTECTION:	B			
1.7	Manufacturer's Address:	17188 Hazelwood Drive Riverside, CA 92503 USA	CHEMTREC +1 (703) 527-3887/+1 (800) 424-9300				
1.8	Business Phone:	+1 (951) 688-1200					
1.9	Emergency Phone:						
1.10	Other Product Names:						

2. HAZARD IDENTIFICATION

2.1	Hazard Identification: This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of NOHSC and ADG Code (Australia). Flammable liquid.						
2.2	Routes of Entry:	Inhalation:	YES	Absorption:	YES	Ingestion:	YES
2.3	Effects of Exposure: EYES: May cause irritation, redness and tearing. Vapors may be irritating to the eyes. SKIN: May cause irritation, defatting, drying and cracking of skin. Prolonged and repeated contact may lead to dermatitis. INGESTION: May cause a burning sensation of the mouth and throat, abdominal pain, gastrointestinal irritation, nausea, vomiting and diarrhea. May also cause kidney damage, cardiac arrhythmia and Central Nervous System effects (see inhalation). Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal. Can be fatal if inhaled or ingested. INHALATION: Vapors may be irritating to nose, throat and respiratory tract. Excessive inhalation of vapors may cause kidney damage, cardiac arrhythmia and Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.						
2.4	Symptoms of Exposure: EYES: Irritation, redness, swelling and tearing. SKIN: Irritation, defatting, drying and cracking of skin. INGESTION: Burning sensation of the mouth and throat, abdominal pain, gastrointestinal irritation, nausea, vomiting and diarrhea. INHALATION: Irritation to nose, throat and respiratory tract, dizziness, coughing, wheezing, weakness, fatigue, nausea, headache and possible unconsciousness.						
2.5	Acute Health Effects: EYES: May cause irritation, redness and tearing. Vapors may be irritating to the eyes. Risk of conjunctivitis SKIN: May cause irritation, defatting, drying and cracking of skin. Prolonged and repeated contact may lead to dermatitis. INGESTION: May cause a burning sensation of the mouth and throat, abdominal pain, gastrointestinal irritation, nausea, vomiting and diarrhea. May also cause kidney damage, cardiac arrhythmia and Central Nervous System effects (see inhalation). Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal. Can be fatal if inhaled or ingested. INHALATION: Vapors may be irritating to nose, throat and respiratory tract. Excessive inhalation of vapors may cause kidney damage, cardiac arrhythmia and Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.						
2.6	Chronic Health Effects: Prolonged or repeated skin contact may lead to dermatitis.						
2.7	Target Organs: None reported by the manufacturer.						

See Section 16 for Additional Definitions of Terms Used.

NOTE: All WHMIS required information is included – it is located in appropriate sections based on the ANSI Z400.1-2004 format.

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3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)					
					ACGIH - ppm		OSHA - ppm			OTHER
					TLV	STEL	PEL	STEL	IDLH	
ETHANOL	64-17-5	KQ6300000	200-578-6	≤ 65.0	1000	NA	1000	NA	NA	
BENZYL ALCOHOL	100-51-6	DN3150000	202-859-9	≤ 25.0	NA	NA	NA	NA	NA	
PROPRIETARY INGREDIENTS	NA	NA	NA	≤ 10.0	NA	NA	NA	NA	NA	

4. FIRST AID MEASURES

4.1	<p>First Aid:</p> <p>EYES: Immediately flush eyes with plenty of running water for at least 15 minutes, lifting upper and lower lids, occasionally. If irritation persists, repeat flushing. Get medical attention.</p> <p>SKIN: Wash thoroughly with soap and water. If irritation persists, seek medical attention. Remove contaminated clothing and wash before reuse.</p> <p>INGESTION: Do not include vomiting. Have conscious person rinse out mouth with water, then drink 1 or 2 glasses of water. Never give an unconscious person anything to ingest. If vomiting spontaneously occurs, have victim lean forward with head down to avoid breathing in the vomitus (vapors from vomit) into the lungs. Rinse out mouth and administer more water. Guard against aspiration into the lungs. Aspiration of material into lungs due to vomiting may cause chemical pneumonitis which can be fatal. Get immediate medical attention.</p> <p>INHALATION: Remove affected person to fresh air. If breathing is difficult, administer oxygen. If breathing stops give artificial respiration. Keep person warm, quiet and get medical attention.</p>											
4.2	<p>Medical Conditions Aggravated by Exposure:</p> <p>None reported by the manufacturer.</p>	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="background-color: #0000FF; color: white; padding: 5px;">HEALTH</td> <td style="text-align: center; padding: 5px;">2</td> </tr> <tr> <td style="background-color: #FF0000; color: white; padding: 5px;">FLAMMABILITY</td> <td style="text-align: center; padding: 5px;">2</td> </tr> <tr> <td style="background-color: #FFFF00; padding: 5px;">REACTIVITY</td> <td style="text-align: center; padding: 5px;">0</td> </tr> <tr> <td style="background-color: #000000; color: white; padding: 5px;">PROTECTIVE EQUIPMENT</td> <td style="text-align: center; padding: 5px;">B</td> </tr> <tr> <td style="padding: 5px;">EYES</td> <td style="padding: 5px;">SKIN</td> </tr> </table>	HEALTH	2	FLAMMABILITY	2	REACTIVITY	0	PROTECTIVE EQUIPMENT	B	EYES	SKIN
HEALTH	2											
FLAMMABILITY	2											
REACTIVITY	0											
PROTECTIVE EQUIPMENT	B											
EYES	SKIN											

5. FIREFIGHTING MEASURES

5.1	<p>Flashpoint & Method:</p> <p>61 °C (142 °F)</p>	
5.2	<p>Autoignition Temperature:</p> <p>Not known</p>	
5.3	<p>Flammability Limits:</p> <p style="margin-left: 20px;">Lower Explosive Limit (LEL): NA Upper Explosive Limit (UEL): NA</p>	
5.4	<p>Fire & Explosion Hazards:</p> <p>This material can burn but will not readily ignite. This material will release vapors when heated above the flash point temperature that can ignite when exposed to a source of ignition. In enclosed spaces, heated vapor can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point.</p>	
5.5	<p>Extinguishing Methods:</p> <p>Dry chemical, foam, carbon dioxide, and water fog.</p>	
5.6	<p>Firefighting Procedures:</p> <p>Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Avoid spraying water directly into storage containers because of danger of boilover. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.</p>	

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6. ACCIDENTAL RELEASE MEASURES

6.1 Spills:
When accidentally discharged, prevent the product from flowing. Contain spillage with sand or inert absorbent and arrange safe disposal. Prevent from fire and explosion risk. Eliminate any possible cause of fire. Absorb in earth or sand, skim on water surface. Elimination treatment will have to be made by an agreed collector.

7. HANDLING & STORAGE INFORMATION

7.1 Work & Hygiene Practices:
Wear gloves, glasses and self-contained mask. Warn about risk of vapor inhalation. Wash hands with water and soap immediately after handling then rinse in case of contact. When using, do not eat, drink or smoke.

7.2 Storage & Handling:
Use and keep away from flame, heat sources and functioning electrical devices. Use in a well ventilated area. Store in original packaging. Keep out of reach of children. Do not store in temperatures above 140 °F. Keep out of direct sunlight.

7.3 Special Precautions:
Do not spray on a naked flame or any incandescent material. When using, do not smoke. Avoid breathing vapors or spray mists.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 Ventilation & Engineering Controls:
Avoid breathing the vapors generated by this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans.) Do not eat, drink, or smoke while handling this product. Ensure that safety shower, hand washing sink and eye bath are near work area.

8.2 Respiratory Protection:
Use respiratory protection (e.g., organic vapor-acid gas cartridge respirator). Use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member states, or Australia.

8.3 Eye Protection:
Safety goggles.

8.4 Hand Protection:
Solvent resistant or other impervious gloves. Wear boots, clothing with long sleeves, etc. as appropriate.

8.5 Body Protection:
Wear protective clothing (e.g., apron)

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	0.864 @ 15 °C
9.2	Boiling Point:	67 °C (152 °F)
9.3	Melting Point:	ND
9.4	Evaporation Rate:	NA
9.5	Vapor Pressure:	NA
9.6	Molecular Weight:	NA
9.7	Appearance & Color:	Clear liquid with slight aromatic alcohol odor
9.8	Odor Threshold:	See above
9.9	Solubility:	Medium
9.10	pH	ND
9.11	Viscosity:	NA
9.12	Other Information:	NA

10. STABILITY & REACTIVITY

10.1	Stability:	This product is chemically stable under normal conditions of storage and use.
10.2	Hazardous Decomposition Products:	Fumes, smoke, carbon monoxide, and trace hydrocarbons.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Do not exposure this product to temperatures above 140 °F.
10.5	Incompatible Substances:	Strong oxidizing agents.

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11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data:	None reported by the manufacturer.
11.2	Acute Toxicity:	None reported by the manufacturer.
11.3	Chronic Toxicity:	None reported by the manufacturer.
11.4	Suspected Carcinogen:	No
11.5	Reproductive Toxicity:	
	Mutagenicity:	This product is not reported to cause mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to cause embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to cause reproductive harm in humans.
11.6	Irritancy of Product:	See section 2.3
11.7	Biological Exposure Indices:	NA
11.8	Physician Recommendations:	Treat symptomatically.

12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.
12.2	Effect on Plants & Animals:	An environmental fate analysis has not been conducted on this specific product. However, plants and animals may experience harmful or fatal effects when coated with petroleum-based products.
12.3	Effect on Aquatic Life:	Petroleum-based products will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway can result in a loss of marine life or create an anaerobic environment.

13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal:	Dispose of in a safe matter, in accordance with local and national regulations.
13.2	Special Considerations:	U.S. EPA Characteristic Waste (Flammable) – D001

14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

14.1	49 CFR (GND):	NOT REGULATED [49 CFR 173.150 (f)(2)]
14.2	IATA (AIR):	ID8000, CONSUMER COMMODITY, 9 (x ≤ 0.5 L) UN1993, FLAMMABLE LIQUIDS, N.O.S., (ETHANOL, BENZYL ALCOHOL) 3, III, LTD QTY (≤ 5.0 L) UN1993, FLAMMABLE LIQUIDS, N.O.S., (ETHANOL, BENZYL ALCOHOL) 3, III (> 5.0 L)
14.3	IMDG (OCN):	UN1993, FLAMMABLE LIQUIDS, N.O.S., (ETHANOL, BENZYL ALCOHOL) 3, III, LTD QTY (≤ 5.0 L)
14.4	TDGR (Canadian GND):	MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (x ≤ 5.0 L)
14.5	ADR/RID (EU):	UN1993, FLAMMABLE LIQUIDS, N.O.S., (ETHANOL, BENZYL ALCOHOL) 3, III, LTD QTY, ADR, (x ≤ 5.0 L)
14.6	MEXICO (SCT):	UN1993, LIQUIDO INFLAMABLE, N.E.P., (ETANOL, ALCOOL BENZIL), 3, III, CANTIDAD LIMITADA (x ≤ 5.0 L)

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15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: This products contains ethanol and benzyl alcohol, substances subject to SARA reporting requirements.	
15.2	SARA Threshold Planning Quantity: NA	
15.3	TSCA Inventory Status: The components of this product are listed on the TSCA inventory.	
15.4	CERCLA Reportable Quantity (RQ): NA	
15.5	Other Federal Requirements: NA	
15.6	Other Canadian Regulations All chemical substances of this product are listed on the CEPA DSL/NDL or are exempt from list requirements. This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.	
15.7	State Regulatory Information: Ethanol (CAS# 64-17-5), can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, and Massachusetts. Benzyl alcohol (CAS# 100-51-6), can be found on the following state right to know lists: Pennsylvania, Minnesota, and Massachusetts.	
15.8	67/548/EEC (European Union) Requirements: The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC. Flammable (F). R: 10-41-65 - Flammable. Risk of serious irritation or damage to eyes. Harmful - may cause lung damage if swallowed. R: 36/37/38 - Irritating to eyes, respiratory system and skin. S: 23-24-62 - Do not inhale gas, fumes, vapor or spray. Avoid contact with skin. If swallowed, do not induce vomiting - Seek medical advice immediately and show this container or label.	

16. OTHER INFORMATION

16.1	Other Information: NA	
16.2	Terms & Definitions: See last page of this MSDS.	
16.3	Disclaimer: This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Mach 3 Automotive Products knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.	
16.4	Prepared for: Mach 3 Automotive Products, LLC 17188 Hazelwood Drive Riverside, CA 92503 USA Phone: +1 (951) 688-1200	
16.5	Prepared by: Steven Charles Hunt ShipMate, Inc. 18436 Hawthorne Blvd, Suite 201 Torrance, CA 90504 USA Phone: +1 (310) 370-3600 Fax: +1 (310) 370-5700 e-mail: shipmate@shipmate.com	

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
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EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

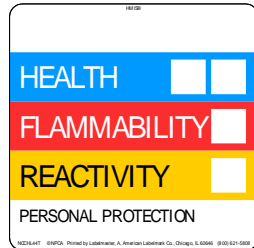
FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.
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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

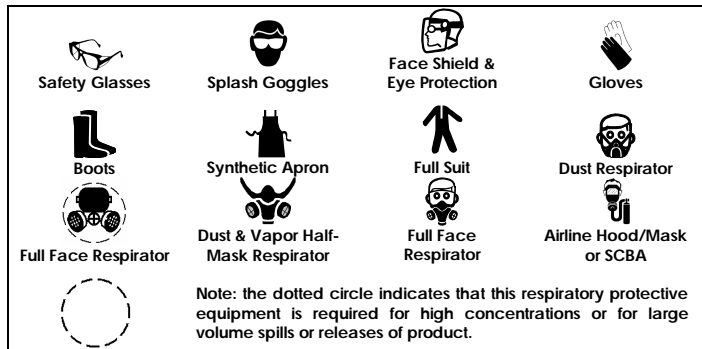
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:

A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or S.O.P. for special handling directions.



OTHER STANDARD ABBREVIATIONS:

NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

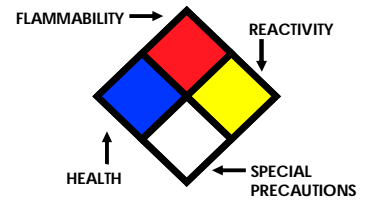
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
-W	Use No Water
OX	Oxidizer



TOXICOLOGICAL INFORMATION:

LD₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD₁₀	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD₁₀, LD₁₀, & LD₀ or TC, TC₀, LC₁₀, & LC₀	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL_m	Median threshold limit
log K_{ow} or log K_{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)

EC INFORMATION:

C	E	F	N	O	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful