

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: Gasoline Standard

AR3000, AR3001, AR3002, AR3003, AR3004, AR3005, AR3006, AR3007, AR3008, AR3009, AR2060, AR2061, AR2062, AR2063, AR2064, AR2065, AR2065, AR2066, AR2067, AR3110, AR3111, AR3112, AR3113, AR3114, AR3115, DMR2124, DMR2125, DMR2126, DMR2127

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	Concentration %	ACGIH	OSHA
Gasoline	86290-81-5	100	TWA – 300 STEL – 500	N/A
Benzene	71-43-2	.1 -4.9	TWA – 0.5 STEL – 2.5	TWA – 1 STEL – 5
n-Butane	106-97-8	<10	TWA – 800	N/A
Ethly Alcohol	64-17-5	0-10	TWA – 100	N/A
Ethyl Benzene	100-41-4	<3	TWA – 100 STEL – 125	N/A
N-Hexane	110-54-3	05-4	TWA – 50	TWA – 500
Methyl-tertiary butyl ether	1634-04-4	0-15	TWA – 50	N/A
Tertiary-amyl methyl ether	994-05-8	0-17.2	N/A	N/A
Toluene	108-88-3	1-25	TWA – 50	TWA – 200
1,2,4-Trimethylbenzene	95-63-6	<6	TWA – 25	N/A
Xylene, mixed isomers	1330-20-7	1-15	TWA – 100 STEL – 150	TWA – 100

TWA – Time Weighted Average
STEL – Short Term Exposure Limit

CAS NO.	%W	CHEMICAL NAMES	OSHA	ACGIH
8006-61-9	100	GASOLINE	PEL (mg/m3) 300 PPM 500 PPM STEL	TLV (mg/m3) 300 PPM 500 PPM STEL

3. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: Causes irritation.

SKIN: Causes irritation. Prolonged and repeated contact may cause various skin disorders such as dermatitis, folliculitis, oil acne or skin tumors.

INHALATION: May cause irritation to the mucous lining. Avoid breathing in vapors directly.

INGESTION: May cause burning of mouth, nausea and vomiting.

CHRONIC OVEREXPOSURE: Prolonged inhalation may adversely affect respiratory function.
ACUTE OVEREXPOSURE: Harmful if swallowed. May be harmful if inhaled. May be harmful if absorbed through the skin. Causes eye and skin irritation.
MEDICAL CONDITIONS AGGRAVATED: Not available.
CARCINOGENICITY: Not available.

4. FIRST AID MEASURES

EYES: Flush with large amounts of water. If irritation persists, get medical attention
INHALATION: Removed from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If respiratory irritation, dizziness, nausea or unconsciousness occurs, get medical attention.
SKIN: Wash skin with plenty of soap and water. Launder contaminated clothing before reuse.
INGESTION: Do not induce vomiting. Give 1 – 2 glasses of water. Call a physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flammable

Flash Point: -40 F ASTM D-56

Flammable Limits: (% by Volume in Air): Lower: 1.4 Upper: 7.4

AUTO-IGNITION TEMPERATURE: 495 F

HAZARDOUS COMBUSTION PRODUCTS: Sulfur oxides and hydrogen sulfide, both of which are toxic, may be released upon combustion. Vapor accumulation could flash and/or explode if ignited. A complex mixture of airborne solid, liquid, particulates and gases will evolve when the material undergoes pyrolysis or combustion. Carbon monoxide and other unidentified organic compounds may be formed upon combustion. Nitrogen oxides, sulfur oxides and metal oxides are also possible products.

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or CO₂. Do not use a direct stream of water. Product will float and can be re-ignited on surface of water.

FIREFIGHTING INSTRUCTIONS: Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires. Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter, especially if sprayed into containers of hot, burning liquid.

6. ACCIDENTAL RELEASE MEASURES

SMALL/LARGE SPILL: Absorb utilizing materials such as fire retardant treated sawdust, diatomaceous earth, etc.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Avoid prolonged or repeated handling; wash thoroughly after handling.

STORAGE: Keep container tightly closed. Store in a cool dry place away from sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Work in well ventilated areas and away from any ignition sources.

RESPIRATORY PROTECTION: Not required during normal use. NIOSH/MSHA respirator if exposure above the PEL or TLV.

SKIN AND HAND PROTECTION: Wear chemical-resistant gloves.

EYE AND FACE PROTECTION: Safety goggles.
OTHER PROTECTIVE EQUIPMENT: Wear suitable protective clothing as needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, colorless to amber, aromatic, volatile liquid.

BOILING POINT: 85 F

FREEZE-MELT POINT: N/A

VAPOR PRESSURE: Unknown

VAPOR DENSITY: 3.0 – 4.0

SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY: 0.76

pH: N/A

ODOR: Hydrocarbon/petroleum odor

Auto Ignition Temperature: 495 F

EVAPORATION RATE: 10-11 (N-Butyl Acetate = 1)

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

INCOMPATIBILITY: Heat, sparks, flame, contact with strong oxidizing agents, and build up of static electricity.

HAZARDOUS DECOMPOSITION PRODUCTS: Will not occur.

HAZARDOUS POLYMERIZATION: None.

11. TOXICOLOGICAL INFORMATION

LD50 – LC50 Mixture: LD50: Oral (RBT) 5 mL/kg

12. ECOLOGICAL INFORMATION

None available.

13. DISPOSAL CONSIDERATION

Dispose of gasoline in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

USA DOT: UN 1203 Flammable Liquid, Gasoline, Class 3.1, Pkg Group 3

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

CERCLA SECTION 301 and SARA SECTION 304

The CERCLA definition of hazardous substances contains a “petroleum exclusion” clause which exempts crude oil, refined and unrefined petroleum products and any indigenous components of such.

TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA Section 313)

This product contains the following toxic chemicals subject to the reporting requirement of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

INGREDIENT NAME	CAS #	CONCENTRATION WT %
Benzene	71-43-2	0.1 – 4.9
Ethyl Benzene	100-41-4	<3
n-Hexane	110-54-3	0.5 – 4
Methyl-tertiary butyl ether	1634-04-4	0 – 15
Toluene	108-88-3	1 – 15
1,2,4-Trimethylbenzene	95-63-6	<6
Xylene, mixed isomers	1330-20-7	1 – 15

HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 (SARA Sections 311-312)

EPA Hazardous Classification Code: Acute Health, Chronic Health, Fire

TOXIC SUBSTANCES CONTROL ACT (TSCA)

This product is listed on the EPA TSCA Inventory.

CANADIAN REGULATION

WHIMS: B2, D2A, D2B

16. OTHER INFORMATION

SUPPLEMENTAL INFORMATION

The data and information as stated was furnished by the manufacturer/vendor &/or supplier of this product. Alpha Resources, Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.

Date Prepared: September 7, 2012

Prepared by: Scot Burns