

Prod.Name: TOP ENGINE CLEANER (AEROSOL)
Manufacturer: GUARDSMAN PRODUCTS INC
HMCS ID: 209865
SUC: 02 - Solvents - Flashpoint < 100 F

MATERIAL SAFETY DATA SHEET

Revision: 21.Mar.1998
Effective: 21.Mar.1998
Print Date: 04.Mar.2005
Page: 1 of 5

1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT INFORMATION

Product Name: TOP ENGINE CLEANER (AEROSOL)

External Keys:

1052626 Distributable Material (Part #)
12345089 Distributable Material (Part #)
AEROSOL Distributable Material (Part #)
CARBURETOR Distributable Material (Part #)
/COMBUSTIO
N CHAMBER
CLEANER
GOODWRENC Distributable Material (Part #)
H TOP ENGINE
CLEANER
TOP ENGINE Primary Tradename - Distributable Material
CLEANER

MANUFACTURER INFORMATION

Manufacturer: GUARDSMAN PRODUCTS INC

Address:

411 N. DARLING USA MICHIGAN 49412 FREMONT MAILING

Communication Lines:

Phone 231-924-3950 EMERGENCY

Comment:

THIS PRODUCT IS USED IN THE WORKPLACE AS A CONSUMER PRODUCT. CONSEQUENTLY THE OSHA HAZARD COMMUNICATION STANDARD DOES NOT APPLY. THE REASON FOR THE EXEMPTION IS CONTAINED IN 29 CFR PART 1910.1200, (B)(6)(IX), AS AMENDED JULY 1, 1994 PER THE FEDERAL REGISTER.

2 INGREDIENT INFORMATION

FORMULATION

Ingredients:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Exposure Limits</u>
2-PENTANOL, 4-METHYL-ETHANOL, 2-BUTOXY-	108-11-2	<	5	% Wt	No
9-OCTADECENOIC ACID (Z)-, AMMONIUM SALT	111-76-2	Range	15 - 20	% Wt	Yes
WATER	544-60-5	Range	10 - 15	% Wt	No
BENZIN	7732-18-5	<	1	% Wt	No
Petroleum gases, liquefied, sweetened	8030-30-6	Balance	0	% Wt	Yes
	68476-86-8	Range	10 - 15	% Wt	No

Comment:

Other Information: ADDITIONAL INGREDIENT INFORMATION IS NOT REQUIRED BECAUSE THIS PRODUCT IS OSHA EXEMPT.

3 HAZARDS IDENTIFICATION

Hazards Overview:

Skin Primary Entry: Yes. Inhalation Primary Entry: Yes. Ingestion Primary Entry: No.

Effects Of Overexposure:

SIGNS/SYMPTOMS OF EXPOSURE: HEADACHE, DIZZINESS, NAUSEA FROM INHALATION OF VAPORS. EYE CONTACT OR PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION.

Medical Conditions Aggravated By Exposure:

NOT DETERMINED

4 FIRST AID MEASURES

First Aid By::

Inhalation REMOVE TO FRESH AIR AT ONCE. APPLY ARTIFICIAL RESPIRATION IF NECESSARY, CONTACT PHYSICIAN IMMEDIATELY.
Skin Contact REMOVE CONTAMINATED CLOTHING AND SHOES. WASH WITH MILD SOAP AND WATER, APPLY SKIN CREAM FOR IRRITATION.
Eye Contact FLUSH WITH RUNNING WATER FOR 15 MINUTES, HOLDING LID OPEN TO EXPOSE SURFACE.

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Page: 2 of 5

Ingestion CONTACT PHYSICIAN.
DO NOT INDUCE VOMITING, CONTACT PHYSICIAN IMMEDIATELY.

5 FIRE FIGHTING MEASURES

Flash Point:

= 135 F TCC.

Explosive Limits:

Upper Explosive Limit ND

(UEL)
Lower Explosive Limit ND
(LEL)

Autoignition Temperature:

NOT DETERMINED

Extinguishing Media:

FOAM, DRY CHEMICAL, CARBON DIOXIDE

Fire and Explosion Hazards:

AEROSOL CONTAINERS MAY BURST WHEN EXPOSED TO TEMPERATURES IN EXCESS OF 120 F.

Special Fire Fighting Procedures:

USE SCBA. WATER IS NOT SUITABLE AS AN EXTINGUISHING MEDIA, BUT MAY BE USED TO COOL NEARBY CONTAINERS.

Comment:

NFPA NOT DETERMINED FLASHBACK: NO // FLAME EXTENSION: >12

6 ACCIDENTAL RELEASE MEASURES

Comment:

Spill or Leak Procedures: ** DANGER!! LEAKING AEROSOLS ARE AN EXTREME FIRE AND EXPLOSION HAZARD!! REMOVE IGNITION SOURCES, CHECK AREA WITH GAS DETECTOR. MOVE LEAKING CANS OUTDOORS AND EMPTY INTO SUITABLE CONTAINER BY DEPRESSING VALVE BUTTON. SMALL LIQUID SPILLS MAY BE TAKEN UP WITH ABSORBENT MATERIAL.

7 HANDLING AND STORAGE

STORAGE

Additional Information on Storage Conditions:

Precautions to be Taken in Handling and Storage: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT USE OR STORE NEAR OPENFLAME OR STRONG OXIDIZERS. Handling and Storage: AVOID BREATHING VAPORS OR MISTS, PROLONGED OR REPEATED SKIN CONTACT.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:

Ventilation: ADEQUATE TO MAINTAIN LEVEL BELOW ESTABLISHED STANDARDS. Local Exhaust: YES: RATE: >60 FPM.

EXPOSURE LIMITS

Limit Values:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Value</u>	<u>Specificati on</u>	<u>Source</u>
ETHANOL, 2-BUTOXY-	111-76-2	PEL-T WA	50ppm	-	OSHA - Permissible Exposure Limits (PELs)
ETHANOL, 2-BUTOXY-	111-76-2	GM OEG- TWA	25ppm	-	Threshold Limit Values (TLVs) - ACGIH
ETHANOL, 2-BUTOXY-	111-76-2	TLV- TWA	20ppm	-	GM Occupational Exposure Guidelines (OEG)
ETHANOL, 2-BUTOXY-	111-76-2	State- TWA	25ppm	-	MICHIGAN
ETHANOL, 2-BUTOXY-	111-76-2	State- TWA	25ppm	-	NEW YORK
ETHANOL, 2-BUTOXY-	111-76-2	State-	25ppm	-	TENNESSEE

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Page: 3 of 5

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Value</u>	<u>Specificati on</u>	<u>Source</u>
BENZIN	8030-30-6	TWA PEL-T WA	400mg/m3	-	OSHA - Permissible Exposure Limits (PELs)
BENZIN	8030-30-6	GM OEG- TWA	400mg/m3	-	Threshold Limit Values (TLVs) - ACGIH
BENZIN	8030-30-6	TLV- TWA	1590mg/m3	-	GM Occupational Exposure Guidelines (OEG)
BENZIN	8030-30-6	State- TWA	400mg/m3	-	MICHIGAN
BENZIN	8030-30-6	State- TWA	400mg/m3	-	NEW YORK
BENZIN	8030-30-6	State- TWA	400mg/m3	-	TENNESSEE

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE):

Eye Protection FACE SHIELD OR SAFETY GLASSES RECOMMENDED.

Respiratory Protection NONE REQUIRED IN NORMAL USE, BUT AN EFFECTIVE, NIOSH/MSHA APPROVED RESPIRATOR SHOULD BE USED AT ANY TIME WHEN VAPOR CONCENTRATIONS EXCEED ESTABLISHED STANDARDS. ADEQUATE TO MAINTAIN LEVEL BELOW ESTABLISHED STANDARDS.

General Protection NONE REQUIRED IN NORMAL USE.

Hand Protection CHEMICAL RESISTANT

Hygiene Measures:
BASIC GOOD HOUSEKEEPING.

Special Precautions:
Special Protection (Mechanical): NO.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical State: Physical State: Liquid.

Color: AMBER LIQUID,

Odor: PETROLEUM ODOR.

PHYSICAL PROPERTIES

pH Value:

Concentrate NOT DETERMINED

Changes of State:

Boiling Point = 212 F IBP

Vapor Pressure:

<1

Vapor Density:

NOT DETERMINED

Specific Gravity:

= 0.92 TYPICAL

Solubility:

Water Solubility in Water Text:NIL.

Total Amount Of::

Percent Volatile by Weight NOT DETERMINED

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Page: 4 of 5

WATER REACTIVE: NO

10 STABILITY AND REACTIVITY

STABILITY INFORMATION

Stability Under Normal Conditions: Stable

Conditions to Avoid:

HEAT SPARKS, OPEN FLAME.

Incompatible Materials:

STRONG OXIDIZERS LIKE CHLORINE OR CONCENTRATED OXYGEN.

Hazardous Polymerization:

Hazardous Polymerization: None. Hazardous Polymerization Conditions to avoid: NONE KNOWN. Hazardous Polymerization Text: NO.

HAZARDOUS DECOMPOSITION

Reactions:

Type of Reaction

Decomposition

Reaction Products

COMBUSTION MAY PRODUCE CARBON MONOXIDE AND OTHER UNIDENTIFIED NOXIOUSGASES.

11 TOXICOLOGICAL INFORMATION

OCCUPATIONAL EXPERIENCES

Additional Observations:

Chronic Effects: HEALTH STUDIES HAVE SHOWN THAT MANY CHEMICALS POSE HUMAN HEALTH RISKS THAT MAY VARY FROM PERSON TO PERSON. PROLONGED OR REPEATED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS HAS BEEN LINKED TO PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATE CONCENTRATION AND INHALATION MAY BE HARMFUL OR FATAL. ANIMAL STUDIES INDICATE THAT 2-BUTOXYETHANOL MAY CAUSE RED BLOOD CELL DAMAGE. AS A PRECAUTION, EXPOSURE TO LIQUIDS OR VAPORS SHOULD BE MINIMIZED.

CLASSIFICATION OF INGREDIENTS

Carcinogenicity:

CARCINOGENIC LISTING: NTP: NO // IARC: NO // ACGIH: NO

12 ECOLOGICAL INFORMATION

13 DISPOSAL CONSIDERATIONS

Waste Disposal Information:

COMPLY WITH ALL APPLICABLE REGULATIONS.

14 TRANSPORT INFORMATION

DOT Information:

DOT PRECAUTIONARY LABEL: CARTON MUST BEAR ORM-D MARKING // PACKING GROUP: NONE ASSIGNED

DOT Shipping Name:

CONSUMER COMMODITY

DOT Hazard Class:

ORM-D

DOT UN Code:

NONE ASSIGNED

Comment:

IMO/IATA ID NUMBER: UN1950/UN1950 // IMO/IATA HAZARD CLASS: 2.1/2.1 // IMO SHIPPING NAME: AEROSOLS // IATA SHIPPING NAME: AEROSOLS, 30 // IMO/IATA PRECAUTIONARY LABEL: AEROSOLS STATEMENT/ FLAMMABLE GAS DIAMOND // IMO/IATA PACKING GROUP: II/NONE ASSIGNED // IMO PAGE NUMBER: 2102 // MARINE POLLUTANT: NO // IN CASE OF TRANSPORTATION EMERGENCY, CALL CHEMTREC 1-800-424-9300

15 REGULATORY INFORMATION

LABELLING

Hazard Codes:

HMIS Reactivity	0
HMIS Health	2
HMIS Flammability	2
NFPA Flammability	2
NFPA Health	2
NFPA Reactivity	0

NATIONAL REGULATIONS

Immediate Health: No

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Page: 5 of 5

Delayed Health: No

Fire: No

Sudden Pressure Release: No

Reactive: No

Comment:

CAS # 111762: SARA SECTION III TOXIC CHEMICAL

16 OTHER INFORMATION
