1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT INFORMATION

Product Name: Low VOC Engine Tuner/Top Engine Cleaner

Recommended Use:

Paint product.

External Keys:

1052626	Distributable Material (Part #)
12342498	Distributable Material (Part #)

MANUFACTURER INFORMATION

Manufacturer: VALSPAR CORP

Address:

1101 Third Street South	USA	Minnesota	55415	Minneapolis	MAILING

Communication Lines:

Phone	888-345-5732	Medical emergency
Phone	612-332-7371	Information

2 INGREDIENT INFORMATION

Synonyms:

Product ID: T-AHST077

FORMULATION

Ingredients:

Chemical Name	CAS Number	Prefix	Value	Unit	Exposure Limits
SOLVENT NAPHTHA	64742-94-5	Range	35 - 40	%Wt	No
ETHANOL, 2-(2-BUTOXYETHOXY)-	112-34-5	Range	10 - 15	%Wt	Yes
NAPHTHALENE	91-20-3	Range	5 - 10	%Wt	Yes
OIL	989903-10-7	Range	1 - 5	%Wt	No
PROPANE	74-98-6	Range	1 - 5	%Wt	Yes
BUTANE	106-97-8	Range	1 - 5	%Wt	Yes

3 HAZARDS IDENTIFICATION

Hazards Overview:

Target Organ and Other Health Effects:
Liver injury may occur.
Kidney injury may occur.
Causes headache, drowsiness or other effects to the central nervous system.
Blood disorders.

Specific Hazards:

Primary Routes of Exposure: Inhalation, Ingestion, Skin absorption

Specific Hazards (Routes Of Exposure):

Exposure Routes	Observation
Eye Contact	Moderate eye irritation. May cause conjunctivitis and swelling. Risk of serious damage to eyes.
Skin Contact	Causes skin irritation. Dermatitis. May cause defatting of the skin.
Ingestion	Irritanting of the mouth, throat and stomach.
Inhalation	Causes respiratory tract irritation. Harmful by inhalation. May cause bronchopneumonia or bronchitis. Convulsions

Medical Conditions Aggravated By Exposure:

Any respiratory or skin condition.

Additional Health Hazard Data:

This product contains ingredients that may contribute to the following potential chronic health effects:
Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

4 FIRST AID MEASURES

First Aid By::

Inhalation	Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. DO NOT place

	anything between the person's teeth during a seizure (including your fingers).
Skin Contact	Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.
Eye Contact	Eye Contact: Remove any contact lenses and open eyes wide apart. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.
Ingestion	Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Get medical attention.

5 FIRE FIGHTING MEASURES

Flash Point:

= -100 °F (-73ºC)

Explosive Limits:

Upper Explosive Limit (UEL)	=	10	'%'
Lower Explosive Limit (LEL)	=	1	'%'

Autoignition Temperature:

Not Determined	-ºF (ºC)

Extinguishing Media:

Carbon dioxide, dry chemical, foam and/or water fog.

Fire and Explosion Hazards:

Unusual fire and explosion hazards: None known.

Special Fire Fighting Procedures:

Surroundings cool with water spray.

Comment:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

6 ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES

Recovery:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal.
See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

Disposal:

Dispose of waste at an approved hazardous waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations.

7 HANDLING AND STORAGE

HANDLING

Safe Handling Procedures:

Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

STORAGE

Storage Conditions:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120ºF. (49ºC). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:

Ventilation:
Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

EXPOSURE LIMITS

Limit Values:

Chemical Name	CAS Number	Type	Value	Specification	Source	Memo
ETHANOL, 2-(2-BUTOXYETHOXY)-	112-34-5	GM OEG-TWA	50ppm	-	GM Occupational Exposure Guidelines (OEG)	
NAPHTHALENE	91-20-3	GM OEG-STEL	15ppm	-	GM Occupational Exposure Guidelines (OEG)	Skin
NAPHTHALENE	91-20-3	PEL-TWA	10ppm	-	OSHA - Permissible Exposure Limits (PELs)	
NAPHTHALENE	91-20-3	GM OEG-TWA	10ppm	-	GM Occupational Exposure Guidelines (OEG)	Skin
NAPHTHALENE	91-20-3	TLV-TWA	10ppm	-	Threshold Limit Values (TLVs) - ACGIH	Skin
NAPHTHALENE	91-20-3	TLV-STEL	15ppm	-	Threshold Limit Values (TLVs) - ACGIH	Skin
NAPHTHALENE	91-20-3	State-TWA	10ppm	-	MICHIGAN	
NAPHTHALENE	91-20-3	State-STEL	15ppm	-	MICHIGAN	
NAPHTHALENE	91-20-3	State-TWA	10ppm	-	NEW YORK	
NAPHTHALENE	91-20-3	State-STEL	15ppm	-	NEW YORK	
NAPHTHALENE	91-20-3	State-TWA	10ppm	-	TENNESSEE	
NAPHTHALENE	91-20-3	State-STEL	15ppm	-	TENNESSEE	
PROPANE	74-98-6	PEL-TWA	1000ppm	-	OSHA - Permissible Exposure Limits (PELs)	
PROPANE	74-98-6	GM OEG-TWA	1000ppm	-	GM Occupational Exposure Guidelines (OEG)	
PROPANE	74-98-6	TLV-TWA	1000ppm	-	Threshold Limit Values (TLVs) - ACGIH	
PROPANE	74-98-6	State-TWA	1000ppm	-	MICHIGAN	
PROPANE	74-98-6	State-TWA	1000ppm	-	NEW YORK	
PROPANE	74-98-6	State-TWA	1000ppm	-	TENNESSEE	
BUTANE	106-97-8	TLV-TWA	1000ppm	-	Threshold Limit Values	

Chemical Name	CAS Number	Type	Value	Specification	Source	Memo
					(TLVs) - ACGIH	

Additional Limit Values:

Chemical Name	CAS Number	Prefix	Value	Unit	Comment
OIL	989903-10-7	=	2000	mg/m3	TWA (final): (500 ppm)

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE):

Eye Protection	Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.
Hand Protection	Appropriate chemical resistant gloves should be worn.
Respiratory Protection	If exposure cannot be controlled below applicabie limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Hygiene Measures:

Other Personel Protection Data:

Ensure that eyewash stations and safety showers are close to the workstation location. To prevent skin contact wear protective clothing covering all exposed areas.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical State: Aerosol

Odor: Normal for this product type.

PHYSICAL PROPERTIES

pH Value:

Not Determined

Changes of State:

Boiling Point: Not Determined

Vapor Pressure:

Not Determined = 68 °F (20ºC)

Vapor Density:

= 5.6 (air=1)

Evaporation Rate:

= 0.1 (Butyl acetate=1)

Density:

= 7.65 lb/gal

Specific Gravity:

= 0.92

Solubility:

Water: Not Determined

Additional Chemical and Physical Data:

Coefficient of water/oil distribution:	Not Determined

10 STABILITY AND REACTIVITY

STABILITY INFORMATION

Stability Under Normal Conditions: Stable

Conditions to Avoid:
Heat

Incompatible Materials:
Strong oxidizing agents.

Hazardous Polymerization:
None anticipated.

Comment:
Stable under normal conditions.
Sensitivity to impact: No
Sensitivity to static discharge: Subject to static discharge hazards.

HAZARDOUS DECOMPOSITION

Reactions:

Type of Reaction	Reaction Products
Decomposition	Hazardous Decomposition Products:Carbon monoxide and carbon dioxide.

11 TOXICOLOGICAL INFORMATION

SCIENTIFIC OBSERVATIONS

LETHAL LIMIT VALUES

Data By Chemical:

Chemical Name	CAS Number	Exposure Routes	Type	Prefix	Value	Unit	Species	Comment
SOLVENT NAPHTHA	64742-94-5	Inhalation	LC50	=	590	mg/m3	Rat	4H
SOLVENT NAPHTHA	64742-94-5	dermal	LD50	=	2	ml/kg	Rabbit	
ETHANOL, 2-(2-BUTOXYETHOXY)-	112-34-5	oral	LD50	=	5660	mg/kg	Rat	
ETHANOL, 2-(2-BUTOXYETHOXY)-	112-34-5	oral	LD50	=	2400	mg/kg	Mouse	
ETHANOL, 2-(2-BUTOXYETHOXY)-	112-34-5	dermal	LD50	=	2700	mg/kg	Rabbit	
NAPHTHALENE	91-20-3	Inhalation	LC50	>	340	mg/m3	Rat	1H
NAPHTHALENE	91-20-3	oral	LD50	=	490	mg/kg	Rat	
NAPHTHALENE	91-20-3	oral	LD50	=	533	mg/kg	Mouse	
NAPHTHALENE	91-20-3	dermal	LD50	>	20	gm/kg	Rabbit	
BUTANE	106-97-8	Inhalation	LC50	=	658	g/m3	Rat	4H
BUTANE	106-97-8	Inhalation	LC50	=	680	g/m3	Mouse	2H

CLASSIFICATION OF INGREDIENTS

Carcingenicity:
Possible cancer hazard. Contains material which may cause cancer based on animal data.
NAPHTHALENE (Cas# 91-20-3):
California Prop 65 - Carcinogen: Listed: April 19, 2002: Carcinogenic;
California Proposition 65:
WARNING! This product contains a chemical known in the State of California to cause cancer.
IARC Group 2B -Sufficient Animal Data: Possibly carcinogenic in humans based on animal studies;
NTP Suspect Carcinogens: Anticipated carcinogen.

12 ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT

Comment:
Ecological data: No information on ecology is available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal Information:
Dispose of waste at an approved hazardous waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations.

14 TRANSPORT INFORMATION

DOT Shipping Name:
Consumer commodity ORM-D
DOT UN Code:
CONCOM
Comment:
International Air Transport Association (IATA):
Proper Shipping Name: AEROSOLS, FLAMMABLE
Hazard Class: 2.1
UN ID Number: UN1950
International Maritime Organization (IMO):
Proper Shipping Name: AEROSOLS
Hazard Class: 2.1
Non-Bulk UN ID Number: UN1950
U.S. Highway & Rail Shipments:
The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

15 REGULATORY INFORMATION

LABELLING

Hazard Codes:

HMIS Health	2
HMIS Flammability	4
HMIS Reactivity	1
NFPA Health	2
NFPA Flammability	4
NFPA Reactivity	1

Comment:
NFPA assigned by General Motors Technical Review.

NATIONAL REGULATIONS

SARA 311/312: Yes
SARA 313: Yes
Immediate Health: Yes
Delayed Health: Yes
Fire: No
Sudden Pressure Release: Yes
Reactive: No
Other Regulation:

SARA 313	DIETHYLENEGLYCOL BUTYL ETHER (Cas#112-34-5): Yes; NAPHTHALENE (Cas# 91-20-3): form R reporting required for 1.0% de minimis concentration.
CERCLA RQ in lbs	NAPHTHALENE (Cas #91-20-3): 100
TSCA Inventory	All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

STATE/LOCAL REGULATIONS

Comment:
Right to Know: The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.
Pennsylvania Right To Know: All ingredients are listed.
Additional Non-Hazardous Materials: Water (Cas #7732-18-5), Proprietary Oil (CAS 989903107).
California Proposition 65:
WARNING! This product contains a chemical known in the State of California to cause cancer.
Rule 66 status of product: Protochemically reactive.

16 OTHER INFORMATION