

Prod.Name: OPTIKLEEN WINDSHIELD WASHER
SOLVENT #1051515
Manufacturer: VULSAY INDUSTRIES
HMCS ID: 1181449
SUC: 02 - Solvents - Flashpoint < 100 F

MATERIAL SAFETY DATA SHEET

Revision: 12.Aug.2004
Effective: 12.Aug.2004
Print Date: 21.Jan.2005
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1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT INFORMATION

Product Name: OPTIKLEEN WINDSHIELD WASHER SOLVENT #1051515

Product Synonyms:

Optikleen Windshield Washer Solvent

Recommended Use:

To prevent lines from freezing.

External Keys:

Optikleen Primary Tradename - Distributable Material

Windshield

Washer Solvent

10-1051515 Distributable Material (Part #)

12377983 Distributable Material (Part #)

1051515 Distributable Material (Part #)

12378465 Distributable Material (Part #)

MANUFACTURER INFORMATION

Manufacturer: VULSAY INDUSTRIES

Address:

35 REGAN ROAD CAN ONTARIO L7A1B BRAMPTON MAILING
2

Communication Lines:

Phone 905-846-2200 MSDS

Fax 905-846-2249

Phone 613-996-6666 Emergency Phone (CANUTEC)

Comment:

Concentrate. 12x1QT Packaging.

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>
WATER	7732-18-5	Balance	0.15	% Vol	No
METHANOL	67-56-1	=	99.85	% Vol	Yes

3 HAZARDS IDENTIFICATION

Effects Of Overexposure:

Irritating to skin, eyes, lungs, nose and throat. Prolonged or repeated skin contact may cause irritant dermatitis. Allergic dermatitis has also been reported. If swallowed, this product may cause blindness or fatality. May be absorbed by inhalation, skin contact and ingestion, causing early symptoms of headache, dizziness, sleepiness, giddiness, muscular in-coordination or at high doses, coma or death. May cause severe delayed effects including abdominal pain, nausea, blurred vision and neurological dysfunction.

4 FIRST AID MEASURES

First Aid By::

Inhalation Remove victim from further exposure and restore breathing if stopped. Obtain medical attention immediately.
Skin Contact Wash contaminated skin with water and mild soap. Remove contaminated clothing.
Eye Contact Flush eyes with water for at least 15 minutes. Obtain medical attention.
Ingestion Give large amounts of water or milk to dilute stomach contents. Induce vomiting only if conscious. Obtain medical attention immediately. Keep patient warm.

5 FIRE FIGHTING MEASURES

Flammability: Flammable

Flash Point:

= 11 C TCC (52 Deg. F.)

Explosive Limits:

Upper Explosive Limit = 36.5 % Vol
(UEL)

Lower Explosive Limit = 6.0 % Vol
(LEL)

Autoignition Temperature:

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= 385 C

Extinguishing Media:

Alcohol, Foam, CO2, Dry chemicals

Non Suitable Extinguishing Media:

Do not use water except as for, wear respiratory equipment, use flooding quantities of water as a fog and to cool all containers involved in fire. Application of solid streams of water may spread fire. Ground all equipment during handling. Fire fighters must wear protective clothing and full-face positive pressure breathing apparatus.

Fire and Explosion Hazards:

The material is a flammable liquid and the vapours may form an explosive mixture between upper and lower explosion limits.

6 ACCIDENTAL RELEASE MEASURES

PRECAUTIONS IN CASE OF ACCIDENTAL RELEASE

Environmental Precautions:

Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes rivers, streams, or public waterways. Block off drains and ditches. Provincial and/or federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition, or to the satisfaction of authorities.

SPILL OR LEAK PROCEDURES

Recovery:

Issue warning "Flammable". Eliminate all ignition sources. Isolate hazard area and restrict access. Wear appropriate breathing apparatus and protective clothing. Stop leak only if safe to do so. Dike and contain land spill. Pump into salvage containers. Soak up residue with natural or synthetic absorbent. Place in containers. Flush with water. Dispose of materials as noted below. Notify appropriate environmental agency.

7 HANDLING AND STORAGE

HANDLING

Prevention of Fire and Explosion:

Handling equipment should be grounded to prevent accumulation of static charge. Avoid any direct contact. Use good personal hygiene. Tanks must be grounded and vented and should be nitrogen blanketed. Tanks must be diked. No smoking or open flame in storage, use or handling areas. Use explosion proof electrical equipment. Ensure proper electrical grounding procedures are in place.

STORAGE

Prevention of Fire and Explosion:

Flammable liquid. Keep away from heat, sparks and open flames. Keep containers tightly sealed. Store away from oxidizing agents, dry area with adequate explosion-proof ventilation.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:

MECHANICAL VENTILATION: GENERAL: Highly recommended for all indoor situations. Concentrations in air should be maintained below lower explosive limit at all times, or below the recommended threshold limit value if unprotected personnel are included. LOCAL: Required for personnel entry into confined spaces (i.e. bulk storage tanks). MAKE-UP AIR: Should always be supplied to balance air exhausted (generally or locally)

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>	<u>Memo</u>
METHANOL	67-56-1	PEL-T WA	200ppm	-	OSHA - Permissible Exposure Limits (PELs)	
METHANOL	67-56-1	GM OEG- TWA	200ppm	-	GM Occupational Exposure Guidelines (OEG)	Skin
METHANOL	67-56-1	GM OEG- STEL	250ppm	-	GM Occupational Exposure Guidelines (OEG)	Skin
METHANOL	67-56-1	TLV- TWA	200ppm	-	Threshold Limit Values	Skin

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Value</u>	<u>Specificati on</u>	<u>Source</u>	<u>Memo</u>
METHANOL	67-56-1	TLV- STEL	250ppm	-	(TLVs) - ACGIH Threshold Limit Values	Skin
METHANOL	67-56-1	State- TWA	200ppm	-	(TLVs) - ACGIH MICHIGAN	
METHANOL	67-56-1	State- STEL	250ppm	-	MICHIGAN	
METHANOL	67-56-1	State- TWA	200ppm	-	NEW YORK	
METHANOL	67-56-1	State- STEL	250ppm	-	NEW YORK	
METHANOL	67-56-1	State- TWA	200ppm	-	TENNESSEE	
METHANOL	67-56-1	State- STEL	250ppm	-	TENNESSEE	

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE):

Eye Protection Splash proof goggles and/or face shield should be worn in situations having the potential for eye contact.

Hand Protection Impervious gloves (neoprene) should be worn at all times when handling this product.

Skin Protection In confined workspaces or where spaces or where the risk of skin exposure is much higher, impervious clothing should also be worn.

Respiratory Protection NIOSH recommended, with consideration for poor warning properties. Must be worn in all situations where the recommended occupational exposure limit is exceeded. Proper equipment includes an atmosphere-supplied, positive pressure demand self-contained or airline breathing apparatus for concentrations in excess of the recommended occupational exposure limit.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical State: Liquid.
Color: Clear, colorless.
Odor: Slight alcohol odor.

PHYSICAL PROPERTIES

Changes of State:

Boiling Point = 64.5 C (148 Deg. F.)
 Melting/Freezing Point = -97.5 C (-144 Deg. F.)

Vapor Pressure:

= 96 mmhg @ 20 Deg. C (68 Deg. F).

Vapor Density:

= 1.105 @ 15 Deg. C (59 Deg. F.) (Air = 1).

Evaporation Rate:

= 2.1 (n-butyl acetate = 1)

Specific Gravity:

= 0.792 (20/20 Deg. C.)

Solubility:

In water Completely soluble.

Total Amount Of::

Percent Volatile = 100%

Additional Chemical and Physical Data:

Odor threshold = 2000 ppm Irritation at 1000 ppm. Poor warning

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properties.

10 STABILITY AND REACTIVITY

STABILITY INFORMATION

Stability Under Normal Conditions: Stable

Conditions to Avoid:

Avoid sparks, open flames and all ignition sources.

Incompatible Materials:

Strong oxidizing materials, reactive chemicals, corrosive to lead and aluminium.

HAZARDOUS DECOMPOSITION

Reactions:

Type of Reaction

Decomposition

Reaction Products

CO, CO₂, Formaldehyde gas produced on combustion.

Comment:

REACTIVITY: Not normally reactive.

11 TOXICOLOGICAL INFORMATION

SCIENTIFIC OBSERVATIONS

TOXICOLOGICAL EFFECTS

Product Data:

Investigated Effect

Reproduction Toxicity

Comment Observed

Birth defects reported in rats exposed to 20,000 ppm.

LETHAL LIMIT VALUES

Data By Chemical:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Exposure Routes</u>	<u>Type</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Species</u>
METHANOL	67-56-1	Ingestion	LD50	Range	5.6 - 13	g/kg	Rat
METHANOL	67-56-1	Skin Contact	LD50	=	20 ml/kg		Rabbit
METHANOL	67-56-1	Inhalation	LC50	=	64000	ppm	Rat

CLASSIFICATION OF INGREDIENTS

Carcinogenicity:

No.

Reproductive Effects:

TERATOGENICITY: No.

Allergen Or Sensitivity:

No.

Comment:

SYNERGISTIC EFFECT: No data.

12 ECOLOGICAL INFORMATION

13 DISPOSAL CONSIDERATIONS

Waste Disposal Information:

WASTE DISPOSAL METHODS: 1. Reclaim. 2. Incinerate with approval of environmental authorities. 3. Dispose in a licensed waste disposal company. 4. Landfill absorbed material in an approved site.

14 TRANSPORT INFORMATION

DOT Shipping Name:

Methyl Alcohol (RQ 5000/2270).

DOT Hazard Class:

Flammable liquid.

DOT UN Code:

1230

DOT Packing Group:

II

Comment:

SHIPPING INFORMATION: All shipments of Methanol must be properly classified, described, packaged, marked and labeled to conform with regulations set by the Canadian Transport Commission, the Transportation of Dangerous Goods Regulations. WHIMS

CLASSIFICATION: B2, D2B. TRANSPORTATION: Canadian TDG Methanol, Flammable liquid, Class 3.2 and 6.1: Packing Group II.

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15 REGULATORY INFORMATION

LABELLING

Hazard Codes:

NFPA Health 1
NFPA Flammability 3
NFPA Reactivity 0

NATIONAL REGULATIONS

SARA 311/312: Yes

SARA 313: Yes

Immediate Health: Yes

Delayed Health: Yes

Fire: No

Sudden Pressure Release: No

Reactive: No

Comment:

SARA 311/312 assigned by GM Technical Review. OSHA - USA: Hazardous according to 29 CFR 1910.1200: Hazardous. EPA: Hazardous according to the Clean Water Act 40 CFR 116-117. Emergency planning and notification - 40 CFR 355 Appendices A and B. SARA Title III Section 131, Specific Toxic Chemical Listings - 40 CFR 372. CERCLA Hazardous Substances List; Designation, Reportable Quantities, Notification - 40 CFR 302

16 OTHER INFORMATION