

W SECTION 1 - MATERIAL IDENTIFICATION AND USE							
MATERIAL NAME/IDENTIFIER OPTIKLEEN ALL SEASON WINDSHIELD CLEANER						CONTROL NUMBER CN31371	
PART NUMBER(S) 89022225						FIRE : HIGH CORROSIVE : NONE CONTACT : NONE HEALTH HAZARD : MODERATE	
MANUFACTURER NAME KIK CUSTOM PRODUCTS			SUPPLIERS NAME GENERAL MOTORS OF CANADA				
STREET ADDRESS 2921 CORDER STREET			STREET ADDRESS 1908 COLONEL SAM DRIVE				
CITY HOUSTON	PROVINCE/STATE COUNTRY TEXAS USA		CITY OSHAWA	PROVINCE/STATE COUNTRY ONTARIO CANADA			
POSTAL CODE 77054	EMERGENCY TELEPHONE NO. 905/660-0444		POSTAL CODE L1H 8P7	EMERGENCY TELEPHONE NO. 905-644-7091			
PRODUCT DESCRIPTION OPTIKLEEN ALL SEASON WINDSHIELD CLEANER							
CHEMICAL NAME METHANOL			TRADE NAME AND SYNONYMS NOT AVAILABLE				
CHEMICAL FAMILY NOT AVAILABLE		CHEMICAL FORMULA NOT AVAILABLE			MOLECULAR WEIGHT NOT AVAILABLE		
MATERIAL USE WINDSHIELD WASHER FLUID							
TDG SHIPPING NAME METHANOL			U.N. NUMBER UN1230	CLASS/DIVISION 3 6.1	PACKING GROUP II		
WHMIS CONTROLLED PRODUCT YES		WHMIS CLASS B - FLAMMABLE AND COMBUSTIBLE MATERIAL D - POISONOUS AND INFECTIOUS MATERIAL D - POISONOUS AND INFECTIOUS MATERIAL					
WHMIS DIVISION 2 - FLAMMABLE LIQUIDS 1 - MATERIALS CAUSING IMMEDIATE AND SERIOUS TOXIC EF 2 - MATERIALS CAUSING OTHER TOXIC EFFECTS				WHMIS SUBDIVISION A - VERY TOXIC MATERIAL B - TOXIC MATERIAL			
SECTION 2 - CHEMICAL COMPOSITION INCLUDING HAZARDOUS INGREDIENTS							
INGREDIENTS	% OR RANGE	UN, NA OR CAS NUMBER	8HR TWA EV PPM MG/M3	15MIN STEL PPM MG/M3	PPM CEILING MG/M3		
(R) METHANOL (METHYL ALCOHOL)	30-60	67-56-1	200 260	250 325	1000	SKIN	
ETHANOLAMINE	< 1.0	141-43-5	3 7.5	6 15	15		
SODIUM 2 MERCAPTO BENZO THIAZOLE	< 1.0	2492-26-4					
SECTION 3 - PHYSICAL DATA							
BOILING POINT 65 - 100°C		FREEZING POINT NOT AVAILABLE		SPECIFIC GRAVITY 0.997 - 1.003			
VAPOUR PRESSURE NOT AVAILABLE		VAPOUR DENSITY NOT AVAILABLE		DENSITY NOT AVAILABLE			
SOLUBILITY IN WATER 100 @10°C		% VOLATILE (BY VOLUME) 100		EVAPORATION RATE NOT AVAILABLE			
pH 9 - 11	PHYSICAL STATE LIQUID		COEFF. WATER/OIL DIST. NOT AVAILABLE		ODOUR THRESHOLD NOT AVAILABLE		
ODOUR AND APPEARANCE RED LIQUID, ALCOHOL ODOUR							
SECTION 4 - FIRE AND EXPLOSION DATA							
FLASHPOINT AND METHOD 29.5°C TCC		LOWER EXPLOSION LIMIT NOT AVAILABLE		UPPER EXPLOSION LIMIT NOT AVAILABLE			
AUTO IGNITION TEMPERATURE NOT AVAILABLE		SENSITIVITY TO IMPACT NOT AVAILABLE		SENSITIVITY TO STATIC DISCHARGE NOT AVAILABLE			

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FLAMMABILITY

These materials are a dangerous fire hazard and a moderate explosion hazard when exposed to heat or flame.
Vapours of these materials are heavier than air and can flow along surfaces to distant points of ignition and can result in flashback.
Closed containers may burst due to the build-up of pressure, when exposed to extreme heat.
Vapours may ignite explosively at room temperatures.

MEANS OF EXTINCTION

Use dry chemical, alcohol foam, water fog, or carbon dioxide to extinguish.
Use water spray to cool exposed surroundings or containers.

SPECIAL PROCEDURES

Firefighters must use self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION PRODUCTS

Burning in air can produce toxic vapours and gases.

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY

Products are stable in closed containers under normal storage and handling procedures, as specified in the Workplace MSDS.

INCOMPATIBILITY AND REACTIVITY

Incompatible with strong oxidizing agents (eg. fluorine, chlorine, and concentrated sulphuric acid).

HAZARDOUS DECOMPOSITION PRODUCTS

CO, CO2

SECTION 6 - TOXICOLOGICAL PROPERTIES

BIOLOGICAL EFFECTS

These products are central nervous system depressants. (Levels of consciousness and mental alertness may be lowered).
Repeated inhalation of excessively high concentrations of mists or vapours of these materials may cause liver and kidney damage.
Repeated or prolonged inhalation of high concentrations of the solvents in this material may cause permanent brain and nervous system damage.
Upon ingestion, methanol will be metabolized to formic acid which selectively attacks the optic nerve and may cause blindness.
Although methanol may be absorbed through the skin or be inhaled, it is unlikely that sufficient amounts will be taken up by these routes to cause adverse health effects.

LD50 OF MATERIAL

NOT AVAILABLE

LC50 OF MATERIAL

NOT AVAILABLE

IRRITANCY OF MATERIAL

INHALANT IRRITANT

SENSITIZING CAPACITY OF MATERIAL

PROLONGED / REPEATED CONTACT > DERMATITIS

SYNERGISTIC MATERIALS

NOT AVAILABLE

CARCINOGENICITY OF MATERIAL

Does not contain any ingredient(s) that are designated carcinogens according to WHMIS criteria.

REPRODUCTIVE EFFECTS OF MATERIAL

NONE KNOWN

TERATOGENICITY

NONE KNOWN

MUTAGENICITY

NONE KNOWN

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SECTION 7

EFFECTS OF ACUTE EXPOSURE TO MATERIAL

FIRST AID MEASURES

ROUTE OF EXPOSURE: INHALATION

Vapours may cause slight irritation of the mucous membranes, discomfort and nausea. Inhalation of progressively higher concentrations above the Employee Exposure Guidelines will result in headache, dizziness, impairment of coordination and narcosis (drowsiness).

FIRST AID

Remove to fresh air.
Restore or support breathing if required.
If irritation persists, seek medical attention.

ROUTE OF EXPOSURE: SKIN

Prolonged or repeated exposure may cause skin irritation and defatting. This may result in cracking and dermatitis. No permanent skin damage is known to occur from contact. These materials may be absorbed through the skin, contributing to the overall exposure. See BIOLOGICAL EFFECTS.

Wash exposed area with soap and warm water.
If irritation persists, seek medical attention.

ROUTE OF EXPOSURE: EYES

Eye contact with the solution or mist can cause severe irritation, tears, and blurred vision. Eye contact with the liquid may produce conjunctivitis (an inflammation of the inner eyelid).

IMMEDIATELY flush eyes with copious quantities of water while holding eyelids open with the thumb and forefinger. Continue for 15 minutes. Seek medical attention, after flushing.

ROUTE OF EXPOSURE: INGESTION

Ingestion could result in gastrointestinal irritation, headache, dizziness, and nausea. Ingestion of small quantities (one ounce or more) may cause blindness. Ingestion may be fatal.

Seek IMMEDIATE medical attention.
Give 3 or more glasses of milk or water to drink, ONLY if the victim is conscious.
Induce vomiting. Repeat.

SECTION 8 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

GLOVES

The use of seamless nitrile rubber gloves is recommended when handling these products.

RESPIRATORY PROTECTION

For exposures above the applicable Employee Exposure Guidelines only supplied air or self-contained breathing apparatus (NIOSH TC-13F) can be used.

EYE PROTECTION

Where splashing may occur use chemical safety goggles or a face shield to prevent eye contact.

FOOTWEAR

CLOTHING

OTHER

ENGINEERING CONTROLS

LEAK AND SPILL PROCEDURE: SMALL SPILLS

For small spills, remove all sources of ignition. Provide maximum ventilation. Contain spill.

Avoid contact with these materials.

Use nitrile rubber or neoprene protective gloves.

DO NOT absorb with wood shavings or sawdust.

Mop, wipe or soak up with absorbent material.

Store used absorbent in covered, labelled, suitable containers prior to disposal.

Wet down waste absorbent with water prior to disposal.

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LEAK AND SPILL PROCEDURE: LARGE SPILLS

For large spills inform safety personnel and Environmental Engineering Department.

Eliminate all sources of ignition.

Contain spill.

Ventilate area to avoid airborne concentration build-up. Unprotected employees should be excluded from the spill area during clean up.

Use self-contained or air-supplied breathing apparatus (NIOSH TC 13 F) in conjunction with chemical safety goggles or face shield, rubber gloves, rubber apron or protective clothing, and rubber boots.

DO NOT absorb with wood shavings or sawdust.

Absorb spill with an inert absorbent such as clay or "speedi dri".

Alternatively, wet vacuuming may be used.

Shovel up and place in appropriate, vented, labelled container.

Wet down waste absorbent with water prior to disposal.

Material should not be allowed to enter a confined space, such as a sewer, because of the possibility of an explosion.

Prevent leakage into sewers and watercourses.

WASTE DISPOSAL

Dispose of in accordance with Local, Provincial or Federal regulations as applicable.

HANDLING PROCEDURES AND EQUIPMENT

Exposure to vapours or mists of these products may cause irritation, therefore avoid generating mists or vapours of these materials.

Avoid breathing mists or vapours.

Avoid prolonged or repeated skin contact.

Ground and bond metal containers for liquid transfers.

Use labelled safety cans for handling small amounts.

Use ONLY Class 1, Division 1, Group D electrical tools in area of handling.

When pouring liquid between metal containers do not allow material to free fall more than 5 inches (13cm).

Do not smoke in area of handling.

Do not use these materials in a confined space unless the confined space entry procedure is followed.

Open containers slowly to relieve any pressure build up.

Do not spray this material except in a ventilated spraybooth or under local exhaust ventilation.

Do not apply to surfaces hotter than 40C/105F (warm to the touch).

Do not heat this material.

Employees who handle these materials must wash their hands with soap and water thoroughly before eating, smoking, or using toilet facilities.

STORAGE REQUIREMENTS

Store in a cool, dry, well ventilated area, away from sources of heat and ignition.

Store in an approved flammable liquids storage area.

Use ONLY Class 1, Division 1, Group D electrical tools in area of storage.

Store away from strong oxidizing agents (eg. fluorine, chlorine, and concentrated sulphuric acid).

Insure that the containers are tightly closed.

Protect containers from physical damage.

Store only in labelled containers.

Do not use empty containers for any other purpose.

Containers of this material may be hazardous when empty. Since empty containers retain residues (vapour, liquid) all hazard precautions on this Workplace MSDS must be observed.

COMMENTS

SECTION 9 - PREPARATION INFORMATION

PREPARED BY:

GENERAL MOTORS OF CANADA INDUSTRIAL HYGIENE

PHONE NUMBER

(905) 644-6013

DATE

05-15-07