



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

Product code and name:

0001M WINDSHIELD WASHER FLUID CONCENTRATE

Chemical name and/or family or description:

Alcohol

Manufacturer's name and address:

PRODUCTOS TEXACO S.A. de C.V.

Oriente 171-401, Aragon Inguaran

07820, Mexico D.F., Mexico

Telephone numbers:

Transportation emergency:

525-751-0600

CHEMTREC (USA): (800) 424-9300

Health emergency-Company: (504) 680-1900

MSDS Assistance (USA):(845)838-7204

Technical Information - Fuels, Fuel Additives: (845) 838-7611

Technical Information - Coolants: (845) 838-7444

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product and/or component(s)

Carcinogenic According to:

NONE

-

<u>Name</u>	<u>Cas nr</u>	<u>Range in %</u>
Methyl alcohol (methanol)	67-56-1	100

200.00 ppm TWA-OSHA (SKIN)
250.00 ppm STEL-OSHA
200.00 ppm TWA-ACGIH (SKIN)
250.00 ppm STEL-ACGIH

PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200).

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

WARNING STATEMENT

WARNING !

FLAMMABLE LIQUID AND VAPOR

HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN

MAY CAUSE DIZZINESS AND DROWSINESS

CONTAINS METHANOL, WHICH MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED,

CAN BE RAPIDLY ABSORBED THROUGH THE SKIN, AND CAN CAUSE NERVE DAMAGE

MAY CAUSE EYE IRRITATION

ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE

CAN CAUSE LIVER, KIDNEY, AND HEART DAMAGE

PRECAUTIONARY MEASURES:

-Keep away from heat, sparks or flame.

-Use only with adequate ventilation.

-Avoid breathing vapor, mist, or gas.

-Avoid contact with eyes, skin, and clothing.

-Keep container closed.

-Wash thoroughly after handling.

HMIS

Health: 2

Flammability: 3

Reactivity: 0

Special: -

NFPA

Health: 2

Flammability: 3

Reactivity: 0

Special: -

Primary Route of Exposure:

EYES

SKIN

INHALATION

EFFECTS OF OVEREXPOSURE

Acute:

Eyes:

Vapor may cause irritation, experienced as discomfort, with excess tear production and blinking, and seen as excess redness of the eye. Liquid may cause more severe irritation and possible corneal injury.

Skin:

Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling.

In addition to the potential skin irritation effects noted above, skin contact may result in other adverse health effects.

Inhalation:

Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness. Inhalation may cause dizziness, drowsiness, euphoria, loss of coordination, disorientation, headache, nausea, and vomiting. In poorly ventilated areas or confined spaces, unconsciousness and asphyxiation may result. Inhalation may result in the absorption of potentially harmful amounts of material.

Ingestion:

Contains methanol which is toxic if swallowed. Causes abdominal discomfort or pain, nausea, vomiting, difficulty breathing, headache, weakness, loss of coordination, difficulty walking, difficulty seeing, dizziness, drowsiness, unconsciousness, and coma. Visual effects include blurred vision, double vision, tunnel vision, changes in color perception, and blindness.

Symptoms may be delayed. Severe poisoning may cause liver, kidney, and heart muscle damage and/or death. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

Sensitization Properties:

Unknown.

Chronic:

Prolonged and repeated overexposure to methanol by skin contact, ingestion, or inhalation may produce chronic poisoning, with nausea, vomiting, headache, ringing in the ears, difficulty walking, dizziness, impaired vision, and liver and kidney damage. In severe chronic overexposure cases, permanent eye damage or blindness may occur.

Medical Conditions Aggravated by Over Exposure:

Repeated overexposure may aggravate cardiovascular, liver, and kidney disease.

Repeated overexposure may aggravate or enhance existing nervous system dysfunction.

Because of its irritating properties, repeated skin contact may aggravate an existing dermatitis (skin condition).

Other Remarks:

This product contains methanol. Methanol poisoning can occur via the lungs, skin, or by ingestion.

4. FIRST AID MEASURES

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin:

Wash skin with plenty of soap and water until all traces of material are removed. Remove and

clean contaminated clothing (See Other Instructions). Destroy non-resistant footwear. Get medical attention if skin irritation persists or contact has been prolonged.

Ingestion:

If person is conscious and can swallow, immediately give two glasses (i.e., 16 oz.) of water but do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.

Inhalation:

If inhaled, remove to fresh air. If not breathing, clear person's airway and give artificial respiration. If breathing is difficult, qualified medical personnel may administer oxygen. Get medical attention immediately.

Other Instructions:

Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

Note to Physician:

Administration of ethyl alcohol is antidotal for methanol. Immediate treatment may reduce toxic effects, supplemented, if necessary, with hemodialysis. Contact a Poison Center for further treatment information.

Aspiration of this product during induced emesis may result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Center for additional treatment information.

5. FIRE-FIGHTING MEASURES

Ignition Temperature - AIT (degrees C):

385.00

Flash Point (degrees C):

12.22 (TCC)

Flammable Limits (%):

Lower:

6

Upper:

36

Recommended Fire Extinguishing Agents and Special Procedures:

Water may be ineffective on flames but should be used to cool fire-exposed containers and provide protection for persons attempting to stop the leak. Use water spray, dry chemical, alcohol resistant foam or carbon dioxide to extinguish fire.

Unusual or Explosive Hazards:

Danger! Flammable materials may release vapors that travel long distances, ignite and flash back. Containers may explode in a fire. Do not expose to heat, sparks, flame, or other sources of ignition.

Use alcohol-compatible foam. Flame is invisible in daylight.

Extinguishing Media Which Must Not be Used:

Not determined.

Special Protective Equipment for Firefighters:

Wear full protective clothing and positive pressure breathing apparatus. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.

FIRE:

In case of fire, use water spray, dry chemical, alcohol resistant foam, or carbon dioxide. Water may be ineffective on flames. Use water spray to keep containers cool and protect personnel attempting to stop the leak.

6. ACCIDENTAL RELEASE MEASURES

Procedures in Case of Accidental Release, Breakage or Leakage:

Eliminate all ignition sources including internal combustion engines and power tools. Ventilate area. Barricade the immediate hazard area. Stay upwind and warn of possible downwind explosion hazard. Avoid breathing vapor. Avoid contact with skin, eyes, or clothing. Pressure demand air supplied respirators should always be worn when the airborne concentration of the contaminant or oxygen is unknown. Otherwise, wear respiratory protection and other personal protective equipment as appropriate for the potential exposure hazard. Contain spill if possible. Remove with inert absorbent. Prevent entry into sewers and waterways.

7. HANDLING AND STORAGE

Precautions to be Taken in

Handling:

Use spark-proof tools. Material may be at elevated temperatures and/or pressures. Exercise care when opening bleeders and sampling ports.

Storage:

Ground and bond shipping container, transfer line, and receiving container. Keep away from heat, sparks, flame, and other sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)

Eye/Face Protection:

Avoid eye contact. Chemical type goggles should be worn. Do not wear contact lenses.

Skin Protection:

Protective clothing such as coveralls or lab coats should be worn. Launder or dry-clean when soiled. Gloves and boots resistant to chemicals and petroleum distillates required.

Respiratory Protection:

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Ventilation:

Use explosion-proof equipment to maintain adequate ventilation to meet occupational exposure limits, if applicable (see below), prevent accumulation of explosive air-gas mixtures, and avoid significant oxygen displacement. Oxygen levels should be at least 19.5% in confined spaces or other work areas (OSHA value).

Exposure Control for Total Product:

Methanol: OSHA PEL-TWA 200 ppm, STEL 250 ppm. (SKIN notation) ACGIH TLV-TWA 200 ppm, STEL 250 ppm. (SKIN notation)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue, clear liquid

Odor:	Alcohol odor
Boiling Point (degrees C):	64.44
Melting/Freezing point (degrees C):	Not applicable.
Specific Gravity (water=1):	0.795
pH of undiluted product:	9.27
Vapor Pressure:	97 mmHg (20.00)
Viscosity (degrees C):	0.7 cSt (20.00)
VOC Content:	Not determined.
Vapor Density (air=1):	1.1
Solubility in Water (%):	> 10
Other:	None

10. STABILITY AND REACTIVITY

This material reacts violently with:

Heat

Strong Oxidizers

Others

Comments:

This material reacts violently with chromic anhydride, lead perchlorate, perchloric acids, other strong acids and strong oxidizers, and strong bases. This material is corrosive to lead and aluminum.

Products Evolved When Subjected to Heat or Combustion:

Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning. Heating in air may produce irritating aldehydes, acids, and ketones.

-

Hazardous Polymerizations:

No

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

Median Lethal Dose

Oral:

Animal data does not reflect human toxicity, see Sections 3 & 11

Inhalation:

Believed to be moderately toxic

Dermal:

DON'T USE! Animal data does not reflect human toxicity, see Sections 3 & 11 DO NOT USE!!

DO NOT USE THIS CODE !! DO NOT USE THIS CODE !!

Irritation Index, Estimation of Irritation (Species)

Skin:

(Draize) Believed to be > .50 - 3.00 /8.0 (rabbit) slightly irritating

Eyes:

(Draize) Believed to be > 25.00 - 50.00 /110 (rabbit) moderately irritating

Sensitization:

Not determined.

Other:

Methanol, a component of this product, has been shown to cause embryo/fetal toxicity and birth defects in rats, but only at doses which cause maternal toxicity (i.e., illness in the mother).

12. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

Dispose of this product in accordance with local and/or national regulations.

US/RCRA Waste Disposal Methods:

This product (as presently constituted) has the RCRA characteristic of ignitability, and is also identified under RCRA as methanol. If discarded in its present form it would have the hazardous waste numbers D001 and U154. Under RCRA, it is the responsibility of the user of the product to determine, at time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may change the classification to non-hazardous, or hazardous for reasons other than, or in addition to, ignitable and methanol.

Remarks:

Do not allow to enter drains or sewers. Can cause explosion.

13. TRANSPORT INFORMATION

DOT: Methanol

DOT: 3

Identification Number: UN 1230

Packing Group: II

Label Required: Flammable liquid

RQ: This product contains a DOT Hazardous Substance or Substances, listed in Section 14 of the MSDS. The DOT information must be accompanied with RQ notation, or, an otherwise 'Not Regulated' product will

be classified as Environmentally Hazardous(solid/liquid) N.O.S., Class 9, unless the product qualifies for the petroleum exemption (49 CFR 171.8), IF the product's shipping container holds at least (lbs) 5000.

IMDG: Methanol

IMDG: 3.2/6.1

Identification Number: UN 1230

Packing Group: II

Label Required: Flammable liquid, Poison

ICAO: Methanol

ICAO: 3/6.1

Identification Number: UN 1230

Packing Group: II

Label Required: Flammable liquid, Poison

TDG: Methanol

TDG: 3.2/6.1

Identification Number: UN 1230

Packing Group: II

Label Required: Flammable liquid, Poison

14. REGULATORY INFORMATION

Regulatory Information:

SARA 311 Hazard Categorization:

Acute

Chronic

Fire

Regulated Chemicals:

Methyl alcohol (methanol)

CAS 67-56-1 | % 100 | RQ 5000 | TPQ
SARA 302/304 : | SARA 313 : X | CERCLA : X
Regulatory Comments:
None.

15. ENVIROMENTAL INFORMATION

Aquatic Toxicity:

Not determined.

Mobility:

Not determined.

Persistence and Biodegradability:

Not determined.

Potential to Bioaccumulate:

Not determined.

Remarks:

None

16. OTHER INFORMATION

Other Information:

'SKIN' notation in Section 2 indicates possible adverse health effects as a result of absorption through the skin, mucous membranes and eyes, by contact with vapor, mist, spray or liquid. Appropriate measures should be taken to minimize contact. Texaco recommends that all exposures to this product be minimized by strictly adhering to recommended occupational controls procedures to avoid any potential adverse health effects.

17. PRODUCT LABEL

MATERIAL IDENTITY

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-

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- Use only with adequate ventilation.
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- Avoid contact with eyes, skin, and clothing.
- Keep container closed.
- Wash thoroughly after handling.

HMIS

Health:

2

Flammability:

3

Reactivity:

0

Special:

-

NFPA

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2

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Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

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FIRE:

In case of fire, use water spray, dry chemical, alcohol resistant foam, or carbon dioxide. Water may be ineffective on flames. Use water spray to keep containers cool and protect personnel attempting to stop the leak.

DOT:

Methanol

3

Identification Number:

UN 1230

Packing Group:

II

Label Required:

Flammable liquid

RQ:

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Manufacturer's name and address:

PRODUCTOS TEXACO S.A. de C.V.

Oriente 171-401, Aragon Inguaran

07820, Mexico D.F., Mexico

Telephone numbers:

Transportation emergency:

525-751-0600

Health emergency-Company:(504) 680-1900

Product Code :

Date Issued : 30/05/2000

CAUTION: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION AS PART OF THE COMPANY'S PRODUCT STEWARDSHIP PROGRAM. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL THE COMPANY'S PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL THE COMPANY'S PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN. TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. THE COMPANY DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.