



SAFETY DATA SHEET

Product: MARC 98 SEE THRU

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 98 SEE THRU

SDS DATE: 08/05/16

SUPPLIER: Mid-American Research Chemical Corp. ADDRESS: P. O. Box 927 Columbus, NE 68602-0927
PHONE: 402-564-7104 FAX: 403-563-1290
EMERGENCY PHONE: InfoTrac 1-800-535-5053
E-MAIL: marc@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Windshield Washer Solvent.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION:

Flam. Liq. 2
Acute Toxicity 3 (Oral)
Acute Toxicity 3 (Dermal)
Acute Toxicity 3 (Inhalation; vapor)
Eye Irrit. 2A
STOT SE 1



SIGNAL WORD/ HAZARD STATEMENTS: **DANGER:** Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. Causes damage to organs.

PRECAUTIONARY STATEMENTS: Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapors, mist or spray. Wash hands, forearms, and exposed areas thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, and eye protection.

IF SWALLOWED: Rinse mouth. Immediately call a **POISON CENTER** or doctor. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. **IF INHALED:** Remove person to fresh air and keep at rest in a position comfortable for breathing. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get medical advice/attention if irritation persists or if you feel unwell. **IF EXPOSED:** call a poison center/doctor.

In case of fire: Use appropriate media (see Section 5) to extinguish. Store in a well-ventilated place. Keep container tightly closed. Keep cool and store locked up. Dispose of contents/container in accordance with local, regional and national regulations.

OTHER HAZARDS: Methanol, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death. Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS NO.	% (W/W)
Methanol	67-56-1	40% - 60%

A percentage of composition has been withheld as a trade secret.



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SECTION 4: FIRST AID MEASURES

FIRST-AID MEASURES GENERAL: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

SKIN : Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call POISON CENTER or doctor/physician if irritation persists or if you feel unwell. Wash contaminated clothing before reuse.

INGESTION: **DO NOT INDUCE VOMITING!** Rinse mouth. Immediately call a POISON CENTER or doctor/ physician.

INHALATION: When symptoms occur: go into open air and ventilate suspected area. Keep at rest and in a position comfortable for breathing. Seek medical advice/attention.

MOST IMPORTANT SYMPTOMS &/ EFFECTS, BOTH ACUTE & DELAYED:

GENERAL: Toxic if swallowed, in contact with skin, or if inhaled. Causes eye irritation. Causes damage to organs..

AFTER INHALATION: Toxic if inhaled. Symptoms may include headache, drowsiness, dizziness, nausea, vomiting, visual disturbance, and optic nerve damage.

AFTER SKIN CONTACT: Toxic in contact with skin. Symptoms may include redness, dry skin, dermatitis, and defatting of the skin.

AFTER EYE CONTACT: Causes serious eye damage. Symptoms may include redness, pain, swelling, itching, burning, tearing, and blurred vision.

AFTER INGESTION: Toxic if swallowed. Symptoms may include headache, drowsiness, dizziness, nausea, visual disturbance, optic nerve damage (blindness), abdominal pain, shortness of breath, vomiting, convulsions, and unconsciousness.

CHRONIC SYMPTOMS: Causes damage to organs (Optic nerve (nervous opticus) and the central nervous system). Methanol, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death.

INDICATION OF IMMEDIATE MEDICAL

ATTENTION & SPECIAL TREATMENT NEEDED: If you feel unwell, seek medical advice (show label where possible).

NOTES TO PHYSICIAN: N/A

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂), water spray, fog.

UNSUITABLE EXTINGUISHING MEDIA: Water may be ineffective because it may not cool the material below its flash point. Water should be used to keep fire-exposed containers cool. Do not use a heavy water stream. Use of heavy stream of water may spread fire.

SPECIAL FIRE FIGHTING PROCEDURES FIRE-FIGHTING EQUIPMENT:

Exercise caution when fighting any chemical fire. Methanol fires may not be visible to the naked eye during daylight. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Under fire conditions, hazardous fumes will be present and closed containers may rupture or explode.

Do not breathe fumes from fires or vapors from decomposition. Use water spray or fog for cooling exposed containers. Closed containers exposed to heat may explode. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow run-off from firefighting to enter drains or water sources.

Do not enter fire area without proper protective equipment, including respiratory protection.



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UNUSUAL FIRE AND EXPLOSION HAZARDS: **FIRE HAZARD:** Highly flammable liquid and vapor.

EXPLOSION HAZARD: May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

REACTIVITY: Reacts violently with strong oxidizers. Increased risk of fire or explosion.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides (CO, CO₂). Acrid smoke and irritating fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES/ PERSONAL PRECAUTIONS:

GENERAL MEASURES: Handle in accordance with good industrial hygiene and safety practice. Use special care to avoid static electric charges. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Do not breathe vapor, mist, or spray. Avoid all contact with skin, eyes, or clothing.

NON-EMERGENCY PERSONNEL: PROTECTIVE EQUIPMENT: EMERGENCY PROCEDURES:

Use appropriate personal protection equipment (PPE).
Evacuate unnecessary personnel.

EMERGENCY RESPONDERS: PROTECTIVE EQUIPMENT: EMERGENCY PROCEDURES:

Equip cleanup crew with proper protection.
Eliminate ignition sources. Stop leak if safe to do so. Ventilate area.

PROTECTIVE EQUIPMENT:

Wear appropriate personal protection equipment (PPE). See SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION.

ENVIRONMENTAL PRECAUTIONS: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:

Contain any spills with dikes or absorbents to prevent Migration and entry into sewers or streams.

METHODS FOR CLEANING UP: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container for disposal. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools. Contact competent authorities after a spill.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING/ STORAGE:

Handle empty containers with care because residual vapors are flammable. Use only non-sparking tools. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors, mist or spray. Use appropriate personal protection equipment (PPE).

HYGIENE MEASURES:

Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

STORAGE CONDITIONS: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

OTHER PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN! READ LABEL CAREFULLY!

INCOMPATIBLE PRODUCTS:

Strong oxidizers such as barium, perchlorate, bromine, and chlorine. Beryllium hydride. Metals such as aluminum, magnesium, and potassium. Chloroform and sodium methoxide. Diethyl zinc. Acetyl bromide. Sodium hypochlorite.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:

METHANOL (67-56-1)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm

EXPOSURE CONTROLS:

APPROPRIATE ENGINEERING CONTROLS/VENTILATION:

Provide sufficient ventilation to keep vapors below permissible exposure limit.

RESPIRATORY PROTECTION:

If exposure limits are exceeded or irritation is experienced, approve respiratory protection should be worn.

EYE/FACE PROTECTION:

Use chemical goggles or safety glasses.

SKIN PROTECTION/PROTECTIVE GLOVES:

Wear chemically resistant protective gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

This may include rubber boots and other impervious and resistant clothing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

WORK HYGIENIC PRACTICES:

Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and again when leaving work. Routinely wash protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

PHYSICAL STATE:

Liquid.

COLOR:

Blur

ODOR:

Faintly sweet pungent odor like ethyl alcohol.

ODOR THRESHOLD:

Not available.

pH:

7.2

EVAPORATION RATE:

Not available.

MELTING POINT/RANGE:

-98°C (-144.4°F)

FREEZING POINT:

-58°F

BOILING POINT (760 mmHg):

>150°F

FLASH POINT/METHOD USED:

-55°F

AUTO-IGNITION TEMPERATURE:

464°C (867.2°F)

DECOMPOSITION TEMPERATURE:

Not available.

FLAMMABILITY (solid, gas):

Not available.

LOWER FLAMMABLE LIMIT:

6%

UPPER FLAMMABLE LIMIT:

36.5%

VAPOR PRESSURE (mmHg):

=128.24 mbar at 20°C (68°F)

VAPOR DENSITY:

1.11 at 15.6°C (60°F)

SPECIFIC GRAVITY / DENSITY:

7.63 lbs/gal

SPECIFIC GRAVITY:

0.92

SOLUBILITY IN WATER:

100%

PARTITION COEFFICIENT,

n-OCTANOL/WATER:

Not available.

VISCOSITY:

Not available.

EXPLOSION DATA-SENSITIVITY

TO MECHANICAL IMPACT:

Not expected to present an explosion hazard due to mechanical impact

EXPLOSION DATA-SENSITIVITY

TO STATIC DISCHARGE:

Static discharge could act as an ignition source.

CRITICAL PRESSURE:

1,142 psia (77.77 bar)



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SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Reacts violently with strong oxidizers. Increased risk of fire or explosion.

CHEMICAL STABILITY: Stable under recommended handling and storage conditions (see Section 7).

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

CONDITIONS TO AVOID: Ignition sources. Direct sunlight. Extremely high or low temperatures. Incompatible materials.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers such as barium, perchlorate, bromine, and chlorine. Beryllium hydride. Metals such as aluminum, magnesium, and potassium. Chloroform and sodium methoxide. Diethyl zinc. Acetyl bromide. Sodium hypochlorite.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon oxides (CO, CO₂).

HAZARDOUS POLYMERIZATION: Will not occur. **CONDITIONS TO AVOID (POLYMERIZATION):** See above.

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS: **PRODUCT**

ACUTE TOXICITY: **ORAL:** Toxic if swallowed. **DERMAL:** Toxic in contact with skin. **INHALATION: VAPOR:** Toxic if inhaled.

LD50 and LC50 DATA:

METHANOL (67-56-1)	
ATE (Oral)	100.00 mg/kg body weight.
ATE (Dermal)	300.00 mg/kg body weight.
ATE (Vapors)	3.00 mg/l/4h

SKIN CORROSION/IRRITATION: Not classified.

pH: 7.2

SERIOUS EYE DAMAGE/ EYE IRRITATION: Causes serious eye irritation.

pH: 7.2

RESPIRATORY OR SKIN SENSITIZATION: Not classified.

GERM CELL MUTAGENICITY: Not classified.

TERATOGENICITY: Not available.

CARCINOGENICITY: Not classified.

REPRODUCTIVE TOXICITY: Not classified.

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE: Cause damage to organs.

SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE: Not classified.

ASPIRATION HAZARD: Not classified.



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- SYMPTOMS/INJURIES AFTER INHALATION:** Toxic if inhaled. Symptoms may include headache, drowsiness, dizziness, nausea, vomiting, visual disturbance, and optic nerve damage.
- SYMPTOMS/INJURIES AFTER SKIN CONTACT:** Toxic in contact with skin. Symptoms may include redness, dry skin, dermatitis, and defatting of the skin.
- SYMPTOMS/INJURIES AFTER EYE CONTACT:** Causes serious eye irritation. Symptoms may include redness, pain, swelling, itching, burning, tearing, and blurred vision.
- SYMPTOMS/INJURIES AFTER INGESTION:** Toxic if swallowed. Symptoms may include headache, drowsiness, dizziness, nausea, visual disturbance, optic nerve damage (blindness), abdominal pain, shortness of breath, vomiting, convulsions, and unconsciousness
- CHRONIC SYMPTOMS:** Causes damage to organs (Optic nerve (nervous opticus) and the central nervous system). Methanol, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death.

INFORMATION ON TOXICOLOGICAL EFFECTS – INGREDIENT(S):

LD50 and LC50 DATA:

METHANOL (67-56-1)	
LC50 Inhalation Rat	22500 ppm (Exposure time: 8 h)
ATE (Oral)	100.00 mg/kg body weight.
ATE (Dermal)	300.00 mg/kg body weight.
ATE (Vapors)	3.00 mg/l/4h

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY:

ECOLOGY – WATER: Readily biodegrades. Evaporates to moderate extent. Does not bioaccumulate.

METHANOL (67-56-1)	
LC50 Fish 1	28,200 mg/l (Exposure time: 96 h – Species: Pimephales promelas [flow-through])
LC 50 Fish 2	>100 mg/l (Exposure time: 96 h – Species: Pimephales promelas [static])

PERSISTENCE AND DEGRADABILITY: Not Established.

BIOACCUMULATIVE POTENTIAL: Not Established.

METHANOL (67-56-1)	
BCF Fish 1	>10
Low Pow	-0.77

MOBILITY IN SOIL: Not available.

OTHER ADVERSE EFFECTS: **OTHER INFORMATION:** Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

SEWAGE DISPOSAL: Do not empty into drains; dispose of this material and its container in a safe way.

WASTE DISPOSAL RECOMMENDATIONS: Dispose of waste material in accordance with local, regional, national, provincial, territorial, and international regulations.

ADDITIONAL INFORMATION: Handle empty containers with care because residual vapors are flammable.



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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)

CONTAINER SIZES(S): BULK, GALLONS
PROPER SHIPPING NAME: COMPOUNDS, CLEANING LIQUID (Contains Methanol)
HAZARD CLASS: 3
ID NUMBER: NA1993
PACKING GROUP: PGII
LABEL STATEMENT: FLAMMABLE

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

METHANOL (67-56-1)

Listed on the United States TSCA (toxic Substances Control Act) inventory

Listed on United States SARA Section 313

SARA SECTION 311/312 HAZARD CLASSES

Delayed (chronic) health hazard
Immediate (acute) health hazard
Fire hazard

SECTION 16: OTHER INFORMATION

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

HMIS/NFPA Ratings: Health = 2
Flammability = 4
Reactivity = 0
Other = -
Protection = -

REVISION DATE: 08/05/16

N/A = Not Applicable, N/D = Not Determined, N/E = Not Established

DISCLAIMER: While the information contained herein is believed to be correct, no warranties are made with respect thereto, and all liability from reliance thereon is disclaimed.