



**SAFETY DATA SHEET
DILUTE MC**

1. PRODUCT AND COMPANY INFORMATION

Product Name: Dilute MC
Synonym: Adhesion Agent
Product Use: Road Paving

Company Name: Midland Asphalt Materials Inc.
640 Young Street
Tonawanda, New York 14151-0388
Phone No. 716-692-0730
Fax No. 716-692-0613

FOR CHEMICAL EMERGENCY, SPILLS, LEAKS,
FIRE, EXPOSURE OR ACCIDENT CALL 3 E
800-451-8346

2. HAZARDS IDENTIFICATION

OSHA/HCS Status: This substance considered Hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Signal Word: Warning

Classification of Substance: Skin Sanitization Category 1

Hazard Pictograms:



Hazard Statements: May cause an allergic reaction

Precautionary Statements:

Inhalation – Inhalation exposure is possible during spraying or stirring processes and may cause nausea, vomiting, diarrhea, and irritation of the nose, throat and lungs.

Skin Contact – May cause skin irritation causing redness and burning of the skin. Contact with the fumes may cause inflammation of sensitive skin membranes.

Eye Contact – May cause eye irritation causing conjunctivitis, stinging, tearing and redness.

Ingestion – Ingestion of this material is not likely during normal handling operations. Ingestion of large amounts of this material may be fatal.

Prevention: Avoid breathing vapor spray. Contaminated work clothing should not be allowed out of the work place. Wear protective gloves. In case of inadequate ventilation, wear respiratory protection.

Response: If on skin, wash with plenty of soap and water. If skin irritation or rash occurs: get medical attention. Specific Treatment See First Aid

Storage: Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance Type: Mixture

<u>Chemical Name</u>	<u>Percent</u>	<u>CAS Number</u>	<u>Exposure Limit</u>
Tall Oil	4-10	8002-26-4	N/A
Water	90-96	7732-18-5	N/A

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

4. FIRST – AID MEASURES

Necessary First Aid Measures:

Inhalation – Immediately move individual away from the exposure area and into fresh air. Seek medical attention immediately. If victim is not breathing, begin artificial respiration. If victim's breathing is difficult, administer oxygen.

Skin Contact – Any contact with material at ambient temperature should be rinsed from the skin with copious amounts of soap and water. In case of persistent skin irritation, consult physician.

Eye Contact – Immediately move individual away from the exposure area and into fresh air. Flush eyes with copious amounts of water for at least 15 minutes while holding eyelids apart. Seek medical attention immediately. Contact lenses should not be worn while working with this chemical.

Ingestion – Do not induce vomiting – Seek medical assistance.

Possible Over-Exposure Signs and Symptoms:

Inhalation – None

Skin Contact – irritation, redness

Eye Contact – None

Ingestion – None

Indication of Immediate Medical Attention/Special Treatment:

Note to Physician – Treat symptomatically. Contact Poison Control if large quantities ingested.

Acute and Delayed Symptoms:

Eye contact: No known significant effects

Inhalation: No known significant effects

Skin contact: May cause allergic reaction

Ingestion: No known significant effects

Other: None

See toxicological information (Section 11)

5. FIRE FIGHTING MEASURES

NFPA Classification Health-2 Fire-1 Reactivity-0 Other -NA

Suitable Extinguishing Media: Water Spray, Extinguishing foam, dry chemical, carbon dioxide.

Unsuitable Extinguishing Media: None known.

Specific Hazards: May form Carbon Monoxide and Carbon Dioxide. If material encounters fire or heat, pressure increase will occur with possible container rupture.

Special Protective Equipment and Precautions for Fire-Fighters:

Wear an approved self-contained breathing apparatus with a full face piece operated with positive pressure and chemical resistant personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions/Emergency Procedures:

No special precautions, spills produce slippery surfaces.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Protective Equipment: Wear the appropriate personal protective equipment including gloves, boots, face shield, and Tyvek suits.

Environmental Precautions:

Prevent material and runoff from entering drains, sewers, streams, and other bodies of water. Spilt materials should be placed in compatible containers. Residual product may be absorbed with sand, clay, earth, floor absorbent or other absorbent material and placed in appropriate containers. Dispose of material in accordance with all local, state and federal regulations.

Methods and Materials for Containment and Cleanup:

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, waterways, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material (i.e. sand, earth, absorbent pads.) and place in container for disposal according to local, state, and federal regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

See Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Put on personal protective equipment when handling (See Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use adequate ventilation or wear appropriate respirator. Do not cut, grind, drill, weld, or reuse containers unless adequate precautions are taken against the hazards. Do not use excessive temperatures. Do not eat, drink or smoke in areas of use or storage.

Conditions for Safe Storage:

Store in tightly closed containers in a dry, isolated, well ventilated area away from sources of ignition and incompatibilities. Keep container tightly sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROL / PERSONAL PROTECTION**Occupational Exposure Limits:**

<u>Chemical Name</u>	<u>OSHA PEL</u>	<u>ACGIH TLV (US3/12)</u>	<u>NIOSH/IDLH(US1/13)</u>
N/A	N/A	N/A	N/A

Engineering Controls: Provide sufficient general and/or local exhaust ventilation to maintain exposure below the TLV(s).

Individual Protection Measures:

Hygiene Measures – Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Use good personal hygiene when handling chemical products. Never wipe eyes or skin with PPE that has been exposed.

Respiratory Protection – Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard(NIOSH/MSHA) if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstances where air-purifying respirators may not provide adequate protection. Avoid working with this material in closed areas with improper ventilation.

Skin Protection – Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Long sleeved cotton shirt and long cotton pants are suggested to avoid potential risk for exposure. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

Eye/Face Protection – Safety eyewear including; glasses, goggles, or face shield complying with an approved standard should be used when handling to avoid exposure to liquid splashes, mists, gases, or dusts. Ensure that eyewash stations and safety showers are close to the workstation location. Do not wear contact lenses when handling this material.

Environmental exposure controls: Do not allow uncontrolled discharge into the environmental. Emissions from ventilation equipment should be checked if they comply with legislation. In some cases, engineering modification may be needed reduce emissions

Check before and during use that all personal protection equipment still retains their protective properties.

9. PHYSICAL AND CHEMICAL PROPERTIES

OVERVIEW:

- Clear to amber /brown with an acrid odor.
- Exposure through inhalation and skin contact may require medical attention.
- This material is a dispersion in which the continuous phase is water. As such, the material exhibits no flammability characteristics.
- Cured residue may produce Carbon monoxide and Carbon Dioxide.

State	Liquid	Flammability	N/A
Appearance	Amber/Brown	Lower/Upper Explosive Limits	N/A
Odor	Acrid	Vapor Pressure	0 kPa @ 25C
Odor Threshold	N/A	Vapor Density	N/A
pH	N/A	Relative Density	.9587 to .9694
Melting Point	-20.15 C	Solubility	.04 g/l
Freezing Point	0 C	Partition Coefficient	3.2 to 6.8
Boiling Point	346 C	Auto-ignition Temp.	276 C
Flash Point	249 to 365 C	Decomposition Temp.	N/A
Evaporation Rate	Not Available	Viscosity	111 CST

10. STABILITY AND REACTIVITY

Reactivity: None Known

Chemical Stability: This product is stable under normal conditions.

Possibility of Hazardous Reaction: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid: No specific data

Incompatible Materials: None Known

Hazardous Decomposition Products: Carbon Monoxide and Carbon Dioxides.

11. TOXICOLOGY INFORMATION

Acute Toxicity:

<u>Chemical Name</u>	<u>Route of Exposure</u>	<u>Species Observed</u>	<u>ACGIH</u>	<u>OSHA</u>
Tall Oil	LD 50 Oral LD 50 Dermal	Rat Rat	>2000 mg/ kg >66 mg/kg	
Tall Oil	Chronic NOAEL Oral Sub Chronic Dermal	Rat Rat	200 mg/kg >50 Mg/kg	

Carcinogenicity:

<u>Chemical Name</u>	<u>OSHA</u>	<u>IARC</u>	<u>NTP</u>
Tall Oil	NA	-	-
	-		-
	-	-	-

Teratogenicity:

<u>Chemical Name</u>	<u>Route of Exposure</u>	<u>Category</u>	<u>Target Organs</u>
Tall Oil	Not applicable	NA	NA

Specific Target Organ: Not available.

Aspiration Hazard: Not available.

Likely Routes of Exposure: Oral, ocular, dermal, inhalation.
Skin Contact: Adverse symptoms: irritation, redness

Delayed and Immediate Effects:Short Term Exposure:

Potential Immediate Effects – Not available

Potential Delayed Effects – Not available

Long Term Exposure:

Potential Immediate Effects – Not available

Potential Delayed Effects – Not available

Potential Chronic Health Effects:

General – Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Not irritating to skin and eyes.

Carcinogenicity – Not expected

Mutagenicity – No known significant effects or critical hazards.

Teratogenicity – No known significant effects or critical hazards.

Developmental Effects – No known significant effects or critical hazards.

Fertility Effects – No known significant effects or critical hazards.

Acute Toxicity Estimates: See above

12. ECOLOGICAL INFORMATION

Toxicity:

<u>Chemical Name</u>	<u>Result</u>	<u>Species</u>	<u>Exposure</u>
Tall Oil	N/A	N/A	N/A

Persistence and Degradability:

<u>Chemical Name</u>	<u>Result</u>
Tall Oil	Readily biodegradable

Bioaccumulative Potential:

<u>Chemical Name</u>	<u>LogPow</u>	<u>BCF</u>	<u>Potential</u>
Tall Oil	3.2 to 6.8	N/A	High

Mobility in Soil:

<u>Chemical Name</u>	<u>Result</u>
Tall Oil	No data available

Other Adverse Effects:

<u>Chemical Name</u>	<u>Notes</u>
Tall Oil	No data available

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

This material is not specifically listed as a hazardous waste in federal regulations. However it could be considered hazardous as toxic, corrosive, ignitable, or reactive characteristic waste according to federal or state regulations. Dispose of in accordance with local, state, and federal regulations at an approved disposal facility. Could be incinerated or landfilled when in compliance with local regulations. Rinse empty containers with water to prepare working solutions. If recycling is not practical, dispose of in compliance of local regulations

14. TRANSPORT INFORMATION

	<u>DOT Classification</u>	<u>IATA Classification</u>	<u>IMDG Classification</u>
UN Number:	N/A	N/A	N/A
UN Proper Shipping Name:	N/A	N/A	N/A
Transportation Hazard Class:	N/A	N/A	N/A
Packing Group:	N/A	N/A	N/A
Environmental Hazard:	No Do not flush into surface water	No	No
Additional Information:	N/A	N/A	N/A

Special Precautions for User:

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. REGULATORY INFORMATION

US Federal Regulations:

ACGIH	N/A
CAA (Section 112)	N/A
CAA 602 Class 1	N/A
CAA Class 2	N/A
NTP	N/A
OSHA	N/A
SARA 311 312	Acute Health Hazard
TSCA	All known components of this product are listed and comply.

**State Regulations:
NY Not Listed
MA Not Listed
NJ Not Listed
PA Not Listed**

16. OTHER INFORMATION

REVISION NUMBER	REVISION DATE
Version 1	6/1/2015

To the best of our knowledge, the information contained herein is accurate. However, neither Midland Asphalt Materials Inc. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The possibility exists that the EU will not recognize this MSDS due to the fact that several components of the MSDS are reflective of ANSI Z 400.1-1998. Although ILO (International Labor Organization) has adopted ANSI Z.1-1998, ultimate disposition lies with the competent authority.