



SAFETY DATA SHEET

DUSTCLEAR

1. PRODUCT AND COMPANY INFORMATION

Product Name: DustClear-G Concentrate, DustClear-G Dilute

Synonym: Cationic Emulsion, DustClear-G

Product Use: Road Paving, Dust Palliative

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 is classified as hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Signal Word: Warning

Classification of Substance:

Skin corrosion/irritation - Category 2
Serious eye damage/irritation - Category 1
Skin sensitization - Category 1
Acute Oral Toxicity – Category 4

Hazard Pictograms:



Hazard Statements:

H302 Substance may be harmful if swallowed irritating mouth throat and stomach.
H315 May cause an allergic skin reaction.
H317 May cause an allergic skin reaction.
H320 May Causes eye irritation.
H333 Vapors may have a strong offensive odor which may cause headaches, nausea and vomiting.

Precautionary Statements:

P261	Prevention: Avoid breathing dust /fume /gas/mist/vapors/spray
P271	Use only outdoors or in well ventilated area.
P301+312+330	IF SWALLOWED: Call a POSION CENTER or doctor/physician if you feel ill. Rinse Mouth.
P303+352+363	IF ON SKIN: Wash with plenty of soap and water. Wash clothing before reuse.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P333+313	If skin irritation or rash occurs: Get medical attention.
P337+313	If eye irritation persists get medical advice/attention.

Storage Precautionary Statements:

P403+235 Store in a well ventilated place. Keep cool.

Disposal Precautionary Statements:

P501 Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Other Hazards Not Classified:

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. Contact with heated material may cause thermal burns.

Eye Contact – May cause eye irritation causing conjunctivitis, stinging, tearing and redness. Contact with heated material may cause thermal burns.

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance Type: Mixture

Chemical Name	Percent	CAS Number	Exposure Limit
Hydrochloric Acid	0.5-3.5	7647-01-0	Inhalation LC50 rate = 3124 ppm 1 Hour
Tall Oil Pitch	12.5-50.0	8016-81-7	Unknown
Indulin W5	0.5-3.5	Proprietary	Unknown
Water	To 100 %	Proprietary	Unknown

**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 – This material is normally stored or handled at elevated temperatures that could cause scalding. If thermal burns occur, seek medical attention immediately. Any contact with material at ambient temperature should be rinsed from the skin with copious amounts of soap and water.

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 – aspiration (inhaling fluid) may result. Ingestion of this material is not likely during normal handling operations. If victim becomes drowsy or unconscious, seek medical attention immediately. If spontaneous vomiting occurs, monitor for breathing difficulty.

Most important symptoms/effects, acute and delayed

Eye Contact - Causes eye irritation.

Inhalation - No known significant effects or critical hazards.

Ingestion - No known significant effects or critical hazards.

Skin Contact - Causes skin irritation. May cause an allergic skin reaction.

Indication of Immediate Medical Attention/Special Treatment:

Note to Physician – In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See toxicological information (Section 11)

5. FIRE FIGHTING MEASURES

NFPA Classification: Health-2 Fire-0 Reactivity-0 Other –NA

Suitable Extinguishing Media: Extinguishing foam, dry chemical.

Unsuitable Extinguishing Media: Water jet.

Specific Hazards: May form carbon dioxide, carbon monoxide and sulfur dioxide.

Special Protective Equipment and Precautions for Fire-Fighters:

Avoid the use of water when fighting a fire involving this product. 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 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. Empty containers may contain flammable, combustible or explosive vapor residue.

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. Avoid extreme temperatures in storage. Emulsions will boil at temperatures greater than 212 degrees F and freeze at temperatures less than 32 degrees F.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	OSH PEL	ACGIH TLV (US 3/12)	NIOSH/IDLH (US 1/13)
Hydrochloric Acid	7mg/cu. m	2ppm ceiling	50ppm
Tall Oil Pitch	Unknown	Unknown	Unknown
Indulin W5	Unknown	Unknown	Unknown

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 asphalt 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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

OVERVIEW:

- Off White to light brown fluid.
- This material is a dispersion in which the continuous phase is water. As such, the material exhibits no flammability characteristics.
- Cured residue at elevated temperatures may produce combustible vapor in closed containers, emitting carbon dioxide, carbon monoxide, sulfur oxides and various hydrocarbons.

State	Liquid	Flammability	N/A
Appearance	Off white to light brown	Lower/Upper Explosive Limits	N/A
Odor	Characteristic	Vapor Pressure	60mm Hg@ 100F
Odor Threshold	N/A	Vapor Density	N/A
pH	4-6	Relative Density	N/A
Melting Point	N/A	Solubility	Readily dispersed
Freezing Point	0C	Partition Coefficient	N/A
Boiling Point	100C	Auto-ignition Temp.	N/A
Flash Point	N/A	Decomposition Temp.	N/A
Evaporation Rate	N/A	Viscosity	N/A

10. STABILITY AND REACTIVITY

Reactivity: No specific data available.

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: Contact with extreme temperatures in storage and handling.

Incompatible Materials: Reactive/incompatible with strong acid, bases.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide.

11. TOXICOLOGY INFORMATION

Acute Toxicity: Mixture Not Classified

Chemical Name	Route of Exposure	Species Observed	ACGIH (mg/kg)	OSHA (mg/kg)
Hydrochloric Acid	Unknown	Unknown	Unknown	Unknown
Tall Oil Pitch	Dermal - Oral	Rat	>2000	>2000
Indulin W-5	Dermal - Oral	Rat	>2000 - >960	>2000 - >960

Carcinogenicity: Mixture Not Classified

Chemical Name	OSHA	IARC	ACGIH
Hydrochloric Acid	Unknown	Group 3	A4
Tall Oil Pitch	Unknown	Unknown	Unknown
Indulin W-5	Unknown	Unknown	Unknown

Teratogenicity: Mixture Not Classified

Chemical Name	Route of Exposure	Category	Target Organs
Hydrochloric Acid	Unknown	Unknown	Unknown
Tall Oil Pitch	Unknown	Unknown	Unknown
Indulin W-5	Unknown	Unknown	Unknown

Specific Target Organ: Not available.

Aspiration Hazard: Not available.

Likely Routes of Exposure: Oral, ocular, dermal, inhalation.

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. Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

Carcinogenicity – Not Classified

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: Not available

12. ECOLOGICAL INFORMATION

Toxicity:

Chemical Name	
Dust Clear G	LC-50 2.9x application rate.

When DustClear was applied to a white washed mason sand per the instructions to petition the pa state conservations commissions dirt and gravel maintenance program for inclusion of product into the program aquatic testing tier 2" for 48 hours at various concentrations rainbow trout were subsequently exposed to the overlying water. One hundred percent survival occurred in both controls water and substrate plus water. And in 1x field app. Rate applied to the substrate. This indicated that when Dustclear is present at recommended field application rate, no toxicity will occur

Persistence and Degradability: Not Established For The Mixture

Chemical Name	Result
HCL	n/a
Tall Oil Pitch	OECD 301D Ready Biodegradability - Closed Bottle Test 36 % - 28 days
Indulin W5	n/a

Bioaccumulative Potential: Not Established for the Mixture

Chemical	LogPow	BCF	Potential
HCL	Unknown	Unknown	Unknown
Tall Oil Pitch	3.3 to 6.1	Unknown	High
Indulin W5	Unknown	Unknown	Unknown

Mobility in Soil: No additional information available for the mixture.

Chemical Name	Result
HCL	Unknown
Tall Oil Pitch	Unknown
Indulin W5	Unknown

Other Adverse Effects: Avoid release to the environment.

Chemical Name	Notes
HCL	Unknown
Tall Oil Pitch	Unknown
Indulin W5	Unknown

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.

14. TRANSPORT INFORMATION

This material is not classified under DOT regulations unless it is shipped at temperatures exceeding 100C.

	<u>DOT</u> <u>Classification</u>	<u>IATA</u> <u>Classification</u>	<u>IMDG</u> <u>Classification</u>
UN Number:	N/A	N/A	N/A
UN Proper Shipping Name:	N/A	N/A	N/A
Transportation Hazard Class:	Not Dangerous	Not Dangerous	Not Dangerous
Packing Group:	N/A	N/A	N/A
Environmental Hazard:	No	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	See Section 8
CAA (Section 212)	N/A
CERCLA	N/A
IARC	N/A
NTP	N/A
OSHA	See Section 8
SARA Title III	Immediate acute health hazard
TSCA	All known components of this product are listed and comply.

State Regulations: N/A

16. OTHER INFORMATION

REVISION NUMBER

REVISION DATE

Version 3

04/28/2020

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 SDS due to the fact that several components of the SDS 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.