

SAFETY DATA SHEET



Revision: 05/26/15

MidContinental Chemical Company, Inc.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	MCC AST 1400	
Company Name:	MidContinental Chemical Company, Inc. 1802 East 123rd Terrace Olathe, Kansas 66061-5876 USA	Phone Number: (913) 390-5556
Web Site Address:	www.mcchemical.com	
Emergency Contact:	CHEMTREC	24 Hour Emergency Number: (800) 424-9300
Recommended use:	Static Dissipater, Fuel Additive	

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture: Flammable liquids: Category 2
Carcinogenicity: Category 2
Reproductive Toxicity: Category 2
Target Organ System Toxicity (Repeated Exposure): Category 3
Aspiration Toxicology: Category: 1
Serious Eye Damage / Eye Irritation: Category 1
Aquatic Toxicity (Chronic): Category 2
Skin Corrosion / Irritation: Category 2
Target Organ System Toxicity (Single Exposure): Category 3

Risk Phrases: R10: Flammable.
R38: Irritating to skin.
R48: Danger of serious damage to health by prolonged exposure.
R45: May cause cancer.
R65: Harmful: May cause lung damage if swallowed.
R67: Vapors may cause drowsiness and dizziness.
R51 / R53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63: Possible risk of harm to the unborn child.

Label Elements:

Signal Word:

Danger

Pictogram:



GHS Hazard Phrases:

H226: Flammable liquid and vapor.
H351: Suspected of causing cancer.
H361: Suspected of damaging fertility or the unborn child.
H373: May cause damage to organs through prolonged or repeated exposure.
H304: May be fatal if swallowed and enters airways.
H318: Causes serious eye damage.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.

GHS Precaution Phrases

P233: Keep container tightly closed.
P240: Ground / bond container and receiving equipment.
P241: Use explosion-proof equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dust / fume / gas / mist / vapors / spray.

GHS Response Phrases:

P264: Wash hands thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves / protective clothing / eye protection / face protection.
 P362 + 364: Take off contaminated clothing and wash before reuse.
 P301 + 310: IF SWALLOWED: Immediately call a POISON CENTER or physician.
 P303 + 361 + 352: IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Wash with soap and water.
 P304 + 340 + 310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
 P305 + 351 + 338 + 315: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Get immediate medical advice / attention.
 P309 + 311: IF exposed or you feel unwell: Call a POISON CENTER or physician.
 P331: Do NOT induce vomiting.
 P332 + 313: If skin irritation occurs, get medical advice / attention.
 P370 + 378: In case of fire, use appropriate media specified in Section 5 herein.
 P391: Collect spillage.

GHS Storage and Disposal Phrases:

P233: Keep tightly closed.
 P403 + 235: Store in cool / well-ventilated place.
 P501: Dispose of contents / container (in accordance with local / regional / national / international regulation).

3. COMPOSITION / INFORMATION / INGREDIENTS

CAS Number	EC Number	Index Number	Hazardous Components (Chemical Name)	Concentration
8008-20-6			Kerosene	65 - 80 %
108-88-3			Toluene	2 – 5 %
Trade Secret			Sulfone - proprietary	2 – 5 %
64742-94-5			Solvent naphtha, heavy aromatic	2 – 5%

* Note that the chemical identity of some or all of the above components is considered confidential business information and is being withheld as permitted by 29 CFR 1910.1200 and various State Right-To-Know Laws.

4. FIRST AID MEASURES

In Case Of Inhalation: Remove to fresh air. If not breathing, give artificial respiration and contact a physician immediately. If breathing is difficult, administer oxygen and contact a physician immediately.

In Case Of Skin Contact: Wash skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists. Wash clothing and shoes separately before reuse.

In Case Of Eye Contact: Immediately flush with plenty of water, alternately lifting the upper and lower eyelids. If appropriate, after 5 minutes, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Get medical attention immediately.

In Case Of Ingestion: Get medical attention immediately. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never induce vomiting or give anything by mouth to a victim who is unconscious or having convulsions.

5. FIREFIGHTING MEASURES

Flash Point: 136 °F (58 °C) (PMCC)

Explosive Limits: Not determined

Autoignition Point: Not determined

Suitable Extinguishing Media: Dry chemical, carbon dioxide, foam.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand MSHA / NIOSH (approved or equivalent) and full protective gear. Avoid breathing smoke and vapor.

Flammable Properties and Combustible liquid. At elevated temperatures, vapors can form an ignitable or

Hazards:

explosive mixture with air. Can form explosive mixtures at temperatures at or above the flash point. Vapors can flow along surfaces to distant ignition sources and flash back. Static discharges can cause ignition or explosion when container is not bonded. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture or explosion.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep personnel removed and upwind of spill. Eliminate all ignition sources. Keep unnecessary and unprotected personnel from entering.

Environmental Precautions: Steps To Be Taken In Case Material Is Released Or Spilled:

Initial Containment: Approach release from upwind. Eliminate all sources of ignition - heat, sparks, flame, electricity, and impact. Contain spilled material with dikes or absorbents. Do not allow material to enter soil, surface water, or sewer system. Stop the source of the leak, if it is safe to do so.

Large Spills Procedure: Contain spilled material. Vacuum or sweep up material and place in a disposal container. Absorb residue with inert material (e.g., dry sand or earth,) then place in a chemical waste container. Do not flush to sewer. Use explosion-proof equipment during clean-up.

Small Spills Procedure: Contain spilled material. Absorb with inert material and place in disposal container. Spills are extremely slippery and should be cleaned up immediately.

Miscellaneous: Note that combustible vapors may form an ignitable mixture with air. Vapors may travel considerable distances from spill and flash back, if ignited. Report spills to local authorities and / or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

7. HANDLING AND STORAGE

Precautions To Be Taken In Handling:

Ground and bond containers when transferring material. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid breathing vapors or spray mists. Keep away from food and drinking water. Secure container after each use. Store in a cool dry, secure area. Keep out of reach of children. Avoid contact with strong oxidizing agents. Protect containers against physical damage.

Precautions To Be Taken In Storing:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area. Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction. Containers may explode and cause injury or death. Contact with hot surfaces may ignite the product.

Other Precautions:

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary. Review all operations that may have the potential of generating and accumulating an electrostatic charge and / or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitating, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA standard 29 CFR 1910.106, Flammable and Combustible Liquids, National Fire Protection Association (NFPA 77, Recommended Practice on Static Electricity, and / or the American Petroleum Institute (API) Recommended Practice 2003, Protection Against Ignitions Arising Out of Static, Lightning and Stray Currents.

Container Warnings: Do not pressurize to empty container or it may rupture with explosive force. Empty containers contain residue (solid, liquid, and / or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static. They may explode and cause injury or death. Empty containers should be completely drained, properly closed and promptly returned to a drum reconditioner or disposed of properly.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

- Toluene: OSHA TWA: 200 ppm

- Naphthalene: OSHA PEL: 10 ppm, 50 mg/m³, OSHA TWA: 10 ppm, 50 mg/m³, ACGIH TWA: 10 ppm, 52 mg/m³, OSHA STEL: 15 ppm, 75 mg/m³, ACGIH STEL: 15 ppm, 79 mg/m³

Engineering Controls	Provide local exhaust and general ventilation systems to maintain airborne concentrations below OSHA, ACGIH, and manufacturer recommended exposure limits. Local exhaust ventilation is preferred because it prevents contaminant dispersion into work areas by controlling it at its source. Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing. Use local and general exhaust ventilation to effectively remove and prevent buildup of mists/vapors/fumes generated from the handling of this product.
Person protection:	Personal Protective Equipment recommendations are based on anticipated known manufacturing and use conditions. These conditions are expected to result in only incidental exposure. A thorough review of the job tasks and conditions by a safety professional is recommended to determine the level of personal protective equipment appropriate for these job tasks and conditions.
Eye protection:	Wear chemical goggles and face shield if splashing is possible. Ensure compliance with OSHA's personal protective equipment (PPE) standard for eye and face protection, 29 CFR 1910.133.
Skin protection:	Use impervious gloves. Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. For heated/molten product, use any type thermal insulating gloves and other clothing as necessary to protect from thermal burns. Ensure compliance with OSHA's personal protective equipment (PPE) standard, 29 CFR 1910.132 (general) and 138 (hand protection). Chemical resistant boots or overshoes.
Respiratory protection:	GAS/VAPOR: Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit-testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage, must be implemented. For concentrations above the TLV and/or PEL but less than 10 times these limits, a NIOSH approved half-facepiece respirator equipped with appropriate chemical cartridges may be used. For concentrations greater than 10 times the TLV and/or PEL, consult the NIOSH respirator decision logic found in Publication No. 87-116 or ANSI Z88.2-1992. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
Additional Exposure Control Remarks:	Eye wash fountains and emergency showers are recommended. Launder contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

9. <i>PHYSICAL AND CHEMICAL PROPERTIES</i>
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Form:	Liquid
Appearance:	Dark amber liquid
Odor:	Fatty acid odor
Odor Threshold:	Not determined
Melting Point:	Not determined
Boiling Point:	Not determined
Autoignition Point:	Not determined
Flash Point:	136 °F (58 °C) (PMCC)
Explosive Limits:	Not determined
Upper / Lower Flammability or Explosive Limits:	Not determined
Specific Gravity (Water = 1):	0.86 at 25/15°C
Vapor Pressure (vs. Air or mm Hg):	Not determined
Vapor Density (vs. Air = 1):	Not determined
Relative Density:	7.14 lbs/gal @ 16°C (60°F)
Evaporation Rate:	Not determined
Solubility in Water:	Insoluble
Percent Volatile:	Not determined

Partition Coefficient: n-octanol / water: Not determined
Decomposition Temperature: Not determined

10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.
Incompatibility - Materials To Avoid: Oxidizing material. Avoid prolonged contact with porous materials.
Hazardous Decomposition Or Byproducts: Products of Combustion: These products are carbon oxides (CO, CO₂) nitrogen oxides (NO, NO₂....)
Hazardous Polymerization: Hazardous polymerization is not expected to occur.
Conditions To Avoid: Sources of ignition, heat.

11. TOXICOLOGICAL INFORMATION

Toxicity to Humans Contact may cause skin or eye irritation. Exposure to oil mists/fumes/vapors may cause respiratory tract irritation with throat discomfort, coughing, and difficulty breathing.

Chronic Toxicity Data: LD/LC50 Values that are relevant for classification:
CAS 108-88-3 toluene
Oral LD50: 5000mg/kg (rat)
Dermal LD50: 12,124 mg/kg (rabbit)
Inhalative LC50: 5320 mg/l (mouse)

Sulfone – proprietary
Oral LD50: 1150 mg/kg (rat)

CAS 64742-94-5 Solvent naphtha (petroleum), heavy arom.
Oral LD50: >5000 mb/kg (rat)
Dermal LD50 >2000 mg/kg (rabbit)

Primary irritant effect: On skin: Irritant to skin and mucous membranes
On the eye: Strong irritant with the danger of severe eye injury.
Sensitization: No sensitizing effects known.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into ground. Also poisonous for fish and plankton in water bodies. The product hasn't been tested. The statement derived from the properties of the individual components.

CAS 108-88-3 Toluene
Acute EC50 6000 mg/L (daphnia)
Acute LC50 5500 mg/L (fish)

Persistence and Degradability: No data available.

Bioaccumaltive Potential: No data available.

Mobility in Soil: No data available.

PBT/VPvB Assessment: No data available.

Other Adverse Effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Do not dispose of into waste water treatment facilities. Treat or dispose of waste

material in accordance with all local, state / provincial, and national requirements. Note that these regulations may also apply to empty containers, liners and rinsate. Processing, use dilution or contamination of this product may cause its physical and chemical properties to change.

14. TRANSPORT INFORMATION

UN Number: UN2924

Packing Group: II

UN Proper Shipping Name: Flammable liquids, corrosive, n.o.s.(Contains toluene, sulfone– proprietary)

Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic)

Transport Hazard Class(es): 3, 8, EHSM

Hazard Label: 3, 8, EHSM

Maritime Transport IMDG/GGVSea

Transport Hazard Class(es): 3, 8, EHSM

Hazard Label: 3, 8, EHSM

Marine Pollutant: Yes

UN “Model Regulation: UN2924, Flammable liquids, corrosive, N.O.S. (Contains: Toluene, sulfone-proprietary), Environmentally hazardous, 3, (8), II

15. REGULATORY INFORMATION

U.S. Federal Regulations

Environmental Regulations

Extremely Hazardous Substances: Not applicable to any components in this product.

SARA 302 / 304 Emergency Planning and Notification substances: Not applicable to any components in this product.

SARA 313 (Specific toxic chemical listings): Toluene (CAS 108-88-3)

Hazardous Substances (CERCLA 302): Not applicable to any components in this product.

SARA 311 / 312 MSDS distribution – chemical inventory – hazard identification: fire; immediate health hazard; delayed health hazard

Clean Water Act (CWA) 307 Priority Pollutants: Not applicable to any components in this product.

Clean Water Act (CWA) 311 Hazardous Substances: Not applicable to any components in this product.

Clean Air Act (CAA) 112 (r) Accidental Release Prevention

Substances: Not applicable to any components in this product.

California Proposition 65: This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm.

Carcinogenic categories:

EPA (Environmental Protection Agency): 108-88-3 toluene

TLV (Threshold Limit Value established by ACGIH): 8008-20-6 kerosene (petroleum), 108-88-3 toluene

NIOSH-CA (National Institute for Occupational Safety and Health): none of the ingredients is listed.

OSHA-CA (National Institute for Occupational Safety and Health): none of the ingredients is listed.

Threshold Planning Quantity (TPQ): Not applicable.

TSCA Inventory Status: All components are included or are exempted from listing on the US Toxic Substance Control Act Inventory.

International Regulations

Canada: All components are compliant with or are exempted from listing on the Canadian Domestic Substance List.

WHMIS (Canada): B-3, D-2A, D-2B

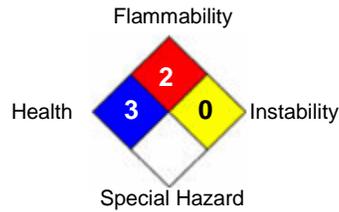
European Union: All components are included or are exempted from listing on the European Inventory of Existing Commercial Chemical Substances of the European List of Notified Chemical Substances.

16. OTHER INFORMATION

Revision Date: 05/26/2015 – GHS Compliant

Previous Revisions: 03/26/2007 – Initial release

Hazard Rating System:



**Company Policy or
Disclaimer:**

The information on this SDS is based on data which is considered to be accurate. MidContinental Chemical Company, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the products are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.