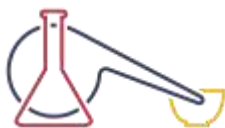


S A F E T Y D A T A S H E E T



Madison Chemical Co., Inc.

3141 Clifty Drive • Madison, IN 47250

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

NAME:

COMPOUND LD-5

TYPE:

Acidic Cleaner

PRODUCT #

431401

FOR INDUSTRIAL USE ONLY – KEEP OUT OF THE REACH OF CHILDREN

EMERGENCY RESPONSE INFORMATION:

CHEMTREC

800-424-9300

24-Hour Service

Company Offices:

812-273-6000

Weekdays

PREPARED DATE:

04-01-15

PREPARED BY:

David Craft

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion/Irritation

Category 2

H315

Serious Eye Damage/Eye Irritation

Category 2B

H320

Aquatic Toxicity (Acute)

Category 3

H402

Signal Word

WARNING

Symbol



Hazard Statements

H315 Causes skin irritation.

H320 Causes eye irritation.

H402 Harmful to aquatic life.

Precautionary Statements

P264 Wash hands, forearms, and exposed areas thoroughly after handling.

P280 Wear eye protection, face protection, protective clothing, protective gloves.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see Section 4).

P332 If skin irritation occurs: Get medical attention.

P337+P313 If eye irritation persists: Get medical attention.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT

SYNONYM

CAS NO.

% BY WEIGHT

Sulfamic acid

Amidosulfonic acid

5329-14-6

15 – 25

If Chemical Name/CAS No is "proprietary" and/or % By Weight is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret

SAFETY DATA SHEET

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

EYES:	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician.
SKIN:	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician. Remove contaminated clothing and shoes. Do not put contaminated clothing and shoes back on. Wash clothing and shoes thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.
INGESTION:	Do NOT induce vomiting. Give water. Never give anything by mouth if the person is unconscious or if having convulsions. Call a physician.
INHALATION:	No specific treatment is necessary since the material is not likely to be hazardous by inhalation. If exposed to excessive levels of fume or dust, remove to fresh air and get medical attention if cough or other symptoms develop.
PRIMARY ROUTE(S) OF ENTRY:	Eyes, skin.
MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED:	
GENERAL:	May cause skin or eye irritation. May be harmful if swallowed.
EYE CONTACT:	Contacted areas may exhibit irritation. Acute overexposure without water flushing may result in burns.
SKIN CONTACT:	Contacted areas may exhibit irritation. Acute overexposure without water flushing may result in burns.
INGESTION:	May be harmful if swallowed.
INHALATION:	No hazard in normal industrial use.
CHRONIC SYMPTOMS:	None expected under normal conditions of use.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

If you experience any of the symptoms / effects listed above seek medical advice.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Use extinguishing media as appropriate for surrounding fire.

SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Hazardous reactions will not occur under normal conditions. Will react with various metals liberating hydrogen gas which could create an explosive situation in confined areas.

ADVICE FOR FIRE FIGHTERS:

Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

Hazardous Combustion Products: Sulfur trioxide, sulfur dioxide, nitrogen oxides, sulfuric acid, ammonia, oxides of carbon

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

Avoid all contact with skin, eyes and clothing. Wear safety eyewear to protect against unexpected splashes. Wear suitable protective clothing. Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Contain liquid spills with sand and absorb on inert material. Dispose with solid waste. See Waste Disposal Method. Do not discharge to sewers or waterways without proper treatment.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Wear proper safety equipment when handling this product. Handle in accordance with good industrial hygiene and safety procedures.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:

Normal for acidic materials. Store away from strong oxidizing agents and alkalis. Keep container closed when not in use. Keep from freezing. Store between 43°F and 100°F.

SAFETY DATA SHEET

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

CHEMICAL IDENTITY

Sulfamic acid

CAS NO.

5329-14-6

OSHA PEL

N.E.

ACGIH TLV

N.E.

ENGINEERING CONTROLS:

As necessary to avoid inhalation and contact.

INDIVIDUAL PROTECTION MEASURES:

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

RESPIRATORY PROTECTION:

Not needed for normal use. In absence of proper environmental control, use NIOSH / MSHA approved inorganic acid vapor respirator for mists where airborne exposure is excessive.

SKIN PROTECTION:

Impermeable gloves. Other equipment as required to avoid contact.

EYE PROTECTION:

Safety eyewear to protect against unexpected splashes.

GENERAL HYGIENE CONSIDERATIONS:

Eyewash facility and emergency shower should be in close proximity. Always wash hands after handling any chemical.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear, purple liquid.
ODOR:	Slightly acidic.
ODOR THRESHOLD:	Not available.
pH (100% solution):	0.8 – 1.3
MELTING POINT/FREEZING POINT	38°F. (-3°C)
INITIAL BOILING POINT AND BOILING RANGE	215°F (101°C)
FLASH POINT (METHOD USED)	Not available.
EVAPORATION RATE	Not available.
FLAMMABILITY (SOLID, GAS)	Not available.
UPPER/LOWER FLAMMABLE OR EXPLOSIVE LIMIT	Not available.
VAPOR PRESSURE	Not available.
VAPOR DENSITY	Not available.
SPECIFIC GRAVITY	1.10
SOLUBILITY IN WATER	Complete.
PARTITION COEFFICIENT: N-OCTANOL/WATER	Not available.
AUTO-IGNITION TEMPERATURE	Not available.
VISCOSITY, DYNAMIC	Not available.
DECOMPOSITION TEMPERATURE	Not available.
VISCOSITY	Not available.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Hazardous reactions will not occur under normal conditions.
CHEMICAL STABILITY:	Stable under recommended handling and storage conditions (see Section 7).
POSSIBILITY OF HAZARDOUS REACTIONS:	Hazardous polymerization will not occur.
CONDITIONS TO AVOID:	Storage below 43°F. or above 100°F.
INCOMPATIBLE MATERIALS:	Alkalies, chlorinated compounds, oxidizing agents, nitrates, nitrites, chlorates. Sulfides, carbides, alcohols, and cyanides.
HAZARDOUS DECOMPOSITION PRODUCTS:	Sulfur trioxide, sulfur dioxide, nitrogen oxides, sulfuric acid, ammonia, oxides of carbon.

SAFETY DATA SHEET

SECTION 11: TOXOLOGICAL INFORMATION

ACUTE TOXICITY:	Not classified
LD50 AND LC50 DATA:	Not available.
ROUTES OF EXPOSURE / SYMPTOMS EYES:	WARNING! Contacted areas may exhibit irritation. Acute overexposure without water flushing may result in burns.
SKIN:	WARNING! Contacted areas may exhibit irritation. Acute overexposure without water flushing may result in burns.
INGESTION:	WARNING! May be harmful if swallowed.
INHALATION:	No hazard in normal use.
GERM CELL MUTAGENICITY:	Not classified.
TERATOGENICITY:	Not available.
CHRONIC EFFECTS / CARCINOGENICITY:	This material contains no ingredients above de minimus concentrations known or suspected to cause cancer.
SPECIFIC TARGET ORGAN TOXICITY (Repeated exposure):	Not classified.
REPRODUCTIVE TOXICITY:	Not classified.
SPECIFIC TARGET ORGAN TOXICITY (Single exposure):	Not classified.
ASPIRATION HAZARD:	Not classified.
COMPONENT INFORMATION:	
Sulfamic acid	LD50 Oral Rat 3160 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY COMPONENT INFORMATION The ecotoxicity of this product is not known.

Sulfamic acid	<u>Freshwater Fish Data:</u> No data available. <u>Invertebrate Toxicity Data:</u> No data available
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PERSISTENCE AND DEGRADABILITY: Not available.
BIOACCUMULATIVE POTENTIAL: Not available.
MOBILITY IN SOIL: Not available.
OTHER ADVERSE EFFECTS: This material contains no hazardous air pollutants (HAPS).

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD Normal for acidic wastes. May require pH adjustment for neutralization. Dispose in accordance with local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Compound, cleaning, NOI, liquid.
HAZARD CLASS: Not relevant
IDENTIFICATION NUMBER: Not relevant
PACKING GROUP: Not relevant
EMERGENCY RESPONSE GUIDE: Not relevant

SAFETY DATA SHEET

SECTION 15: REGULATORY INFORMATION

VOC:
TSCA STATUS
CERCLA REPORTABLE QUANTITY

0 pounds per gallon (0 grams per liter).
All ingredients are listed on the active TSCA inventory.
None established.

SARA 311 / 312 HAZARD CLASSES

x	ACUTE HEALTH
	FIRE
	SUDDEN RELEASE OF PRESSURE
	CHRONIC HEALTH
	REACTIVE

SARA 312 INFORMATION

Storage of 10,000 pounds or more may require filing a Tier 2 form. Threshold planning quantity for reporting is 10,000 pounds. This material is not an extremely hazardous substance (EHS).

SARA 313 INFORMATION

This material contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

CHEMICAL NAME
None

CATEGORY CODE

CAS NUMBER

% BY WEIGHT

STATE REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

California has not identified the ingredients listed in Section 3 as known to cause cancer or reproductive toxicity.

SECTION 16: OTHER INFORMATION

SDS STATUS:

Revised to GHS Standards on 04-01-15.

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

FOR INDUSTRIAL USE ONLY – KEEP OUT OF THE REACH OF CHILDREN