

SAFETY DATA SHEET SULPHAMIC ACID

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: Sulphamic Acid

OTHER MEANS OF IDENTIFICATION: None

RECOMMENDED USE: Oilwell drilling fluid and cement additive

RESTRICTIONS ON USE: None known SUPPLIER IDENTIFIER: Di-Corp

8750-53 Ave

Edmonton, AB T6E 5G2

780-440-4923

EMERGENCY PHONE NUMBER: (24 hr) 1-888-CANUTEC (226-8832), 613-996-6666 or *666 on a cellular phone

SECTION 2: HAZARD IDENTIFICATION

Corrosive to metals – Category 1

CLASSIFICATION: Skin irritation – Category 2

Eye irritation - Category 2

LABEL SYMBOLS:



SIGNAL WORD: WARNING

May be corrosive to metals.

CLASSIFICATION INFORMATION: Causes skin irritation.

Causes serious eye irritation. Keep only in original packaging. Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention/advice.

Take off contaminated clothing and wash it before reuse.

PRECAUTIONARY STATEMENTS: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Store in a corrosion resistant container.

Dispose of contents/container in accordance with local, regional, national, and/or international

regulations.

OTHER HAZARDS: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME CAS NUMBER CONCENTRATION
Sulphamic acid 5329-14-6 >99.8% (w/w)

SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Quickly and gently brush away excess chemical. Thoroughly flush with running water while

 $removing\ contaminated\ clothing.\ If\ irritation\ develops\ and\ persists,\ obtain\ medical\ attention.$

EYE CONTACT: Flush with gently flowing warm water for minimum 20 minutes. Hold eyelids open to ensure

thorough flushing. Obtain medical attention when flushing is complete and no further

irritation is felt.

© Di-Corp 2018 Page 1 of 4



SAFETY DATA SHEET SULPHAMIC ACID

INGESTION: Do not induce vomiting. Rinse mouth with water. Give 1 to 2 glasses of water. Obtain medical

attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness

or convulsing.

INHALATION: Move to area free from dust. Obtain immediate medical attention. If victim is not breathing, if

breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

MOST IMPORTANT SYMPTOMS/EFFECTS: May cause moderate to severe eye irritation. May cause skin irritation.

IMMEDIATE MEDICAL ATTENTION/SPECIAL Treat symptomatically.

TREATMENT:

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIFIC FIRE HAZARDS: Emits toxic fumes under fire conditions.

HAZARDOUS COMBUSTION PRODUCTS: Sulphur oxides and ammonia.

SPECIAL PROTECTIVE EQUIPMENT & Self-contained breathing apparatus required for fire-fighting personnel. Move material from

PRECAUTIONS: fire area if possible to do so without risk.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIMENT AND EMERGENCY PROCEDURES

Material is corrosive: Use appropriate safety equipment. Eliminate ignition sources. Avoid creating dust clouds. Sulphamic acid is an acute environmental toxic; prevent material from entering sewers or waterways.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Collect dry material by shoveling, liquid material can be removed with a vacuum truck. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Flush spill area thoroughly with water.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

This product is corrosive. Wear personal protective equipment. Wash thoroughly after handling. Avoid contact with skin and eyes. Avoid ingestion. Wash clothing before reuse. Avoid creating dust clouds.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in cool, dry area away from incompatibles. Keep container tightly closed and properly labelled. Aqueous solutions of sulphamic acid can, if in contact with reactive metal (iron, zinc, aluminum) form hydrogen which may create explosive mixtures. Avoid creating dust clouds when handling. Empty packages contain residual hazardous material and should be handled as if full.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: Not established.

ENGINEERING CONTROLS: Use only with adequate ventilation. If user operations generate dust use process enclosure,

local exhaust ventilation or other engineering controls to keep worker exposure below limits.

Ensure ventilation equipment is corrosion resistant and separate from other exhaust

ventilation systems.

PERSONAL PROTECTIVE MEASURES

RESPIRATORY PROTECTION: Approved dust masks required for dust levels below TLV. Use a properly fitted particulate

filter respirator complying with an approved standard if airborne concentrations exceeds TLV

or if a risk assessment indicates this is necessary.

PROTECTIVE GLOVES: Rubber gauntlets recommended.

EYE PROTECTION: Wear tight fitting chemical goggles. Do not wear contact lenses.

© Di-Corp 2018 Page 2 of 4



SAFETY DATA SHEET SULPHAMIC ACID

OTHER PROTECTIVE EQUIPMENT (SPECIFY): Protective clothing as required to prevent contact. Ensure eye-wash station and emergency

shower are available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White powder or granules

ODOUR: Odourless
ODOUR THRESHOLD: Not applicable.
pH: 1.18 (10 g/L solution)

MELTING POINT / FREEZING POINT: 205°C

BOILING POINT / RANGE: Not applicable (decomposes)

FLASH POINT:

EVAPORATION RATE:

Not applicable

VAPOUR PRESSURE:

0.78 Pa @ 20°C

VAPOUR DENSITY:

Not available

RELATIVE DENSITY:

2.15 g/cm³ @ 25°C

SOLUBILITY: Soluble in water (181.4 g/L @ 20°C)

PARTION COEFFICIENT: Not available
AUTO-IGNITION TEMPERATURE: Not applicable

DECOMPOSITION TEMPERATURE: 209°C

VISCOSITY: Not applicable

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Not available. CHEMICAL STABILITY: Stable.

POSSIBILITY OF HAZARDOUS REACTIONS: May react violently with nitrates and nitric acid, sometimes even leading to explosions.

CONDITIONS TO AVOID: Avoid cyanides, nitrates, sulfides, chlorine, hypochlorous acid or hypochlorite.

INCOMPATIBLE MATERIALS: Not available.

HAZARDOUS DECOMPOSITION PRODUCTS: May react with metals generating explosive hydrogen gas.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY: LD50 (oral, rat) = 3160 mg/kg

SKIN CONTACT: May cause irritation. Prolonged contact may cause inflammation and blistering.

EYE CONTACT: May cause moderate to severe irritation according to animal testing. Prolonged contact may

cause corneal damage and possibly blindness.

INGESTION: May cause burns to mouth, throat and esophagus.

INHALATION: Dusts and mists from solutions may cause temporary irritation of the nose and throat. The

severity of these effects would depend on the airborne concentration, concentration of the

solution and the duration of exposure.

CARCINOGENICITY: Not considered to be carcinogenic (NTP, IARC, or OSHA).

TERATOGENICITY:

REPRODUCTIVE TOXICITY:

MUTAGENICITY:

No information available.

No information available.

CHRONIC TOXICITY:

No information available.

© Di-Corp 2018 Page 3 of 4



SAFETY DATA SHEET SULPHAMIC ACID

TARGET ORGAN EFFECTS: Not available.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Fish: LC50 (Pimephales promelas): 70.3 mg/L/96 hr (OECD TG 203, 1981)

Daphia: EC50 (Daphnia magna): 71.6 mg/L/24 hr (OECD TG 202, 2010)

Algae: ErC50: 48 mg/L/72 hr (OECD TG 201, 2010)

Micro-organisms: EC50: > 200 mg/L/3 hr (OECD TG 209, 2010)

PERSISTENCE AND DEGRADABILITY: Sulphamic acid is stable in water at pH 4, 7 and 9 at 25 °C, with a half-life greater than one

year. Sulphamic acid is an inorganic substance, so the biodegradability criterion is not

applicable.

BIOACCUMULATIVE POTENTIAL: Not applicable. Sulphamic acid is an inorganic substance with high water solubility and

without heavy metal, which indicates it has no potential of bio-accumulation.

MOBILITY IN SOIL: Not applicable.

OTHER ADVERSE EFFECTS: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty containers, which have not been cleaned and purged, contain residual hazardous material and must be recycled, or disposed of, in accordance with local regulations.

SECTION 14: TRANSPORTATION INFORMATION

TDG Regulated
DOT Regulated
IATA Regulated
IMDG Regulated
UN NUMBER: UN2967

PROPER SHIPPING NAME: SULPHAMIC ACID

CLASS: 8
PACKING GROUP: III

IMDG HAZARDS: Not applicable BULK TRANSPORT: Not applicable

SPECIAL PRECAUTIONS: None

SECTION 15: REGULATORY INFORMATION

DSL: On the list.

WHMIS CLASS: E

TSCA: On the list.

SECTION 16: OTHER INFORMATION

REVISION DATE: April 13, 2018

REPLACES: None

The information contains herein is given in good faith, but no warranty, expressed or implied, is made.

© Di-Corp 2018 Page 4 of 4