


SECTION 1. IDENTIFICATION

Product Identifier	JetD
Product Family	Drilling Fluid Additive
Recommended Use	Hole Stabilizer
Supplier Identifier	Blackstone Drilling Fluids Ltd., 1600, 510 - 5th Street S.W., Calgary, Alberta, T2P 3S2, 403-262-5955
Emergency Phone No.	CANUTEC, 613-996-6666 or *666 on a cellular phone (Canada Only), 24 Hours / Day

SECTION 2. HAZARD IDENTIFICATION

CLASSIFICATION:	Corrosive to metals – Category 1 Skin corrosion/irritation – Category 2 Serious eye damage/Eye irritation – Category 2A
LABEL SYMBOLS:	
SIGNAL WORD:	WARNING
CLASSIFICATION INFORMATION:	May be corrosive to metals. Causes skin irritation. Causes serious eye irritation. Keep only in original packaging. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves, clothing, eye and face protection. IF ON SKIN: Wash with plenty of water.
PRECAUTIONARY STATEMENTS:	If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously 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 corrosion resistant container.
OTHER HAZARDS:	None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Sulfamic acid	5329-14-6	15 – 25% (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 persists or burns appear, obtain medical attention.
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EYE CONTACT:	Flush with gently flowing warm water for minimum 15 minutes. Hold eyelids open to ensure thorough flushing. Obtain medical attention when flushing is complete and no further irritation is felt.
INGESTION:	Do not induce vomiting. Rinse mouth and 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. If victim is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Obtain immediate medical attention.
MOST IMPORTANT SYMPTOMS/EFFECTS:	Causes eye irritation. Prolonged eye contact may result in corneal damage.
IMMEDIATE MEDICAL ATTENTION/SPECIAL TREATMENT:	May cause skin irritation. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media appropriate for packaging and surrounding materials.
UNSUITABLE EXTINGUISHING MEDIA:	None known.
SPECIFIC FIRE HAZARDS:	Thermal decomposition will result in the generation of irritating and highly toxic gases.
HAZARDOUS COMBUSTION PRODUCTS:	Includes oxides of carbon, oxides of nitrogen, oxides of sulfur and ammonia.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Self-contained breathing apparatus required for fire-fighting personnel.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment. Avoid creating dust clouds. Avoid bodily contact with spilled material.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Collect dry material by shoveling or use vacuum. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Neutralize residue with dilute solution of soda ash. 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. Avoid creating dust clouds when handling. Wash clothing before reuse. Thoroughly clean or discard contaminated leather articles.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in cool, dry area away from incompatibles. Keep container tightly closed and properly labelled. Aqueous solutions can, if in contact with reactive metal (iron, zinc, aluminum) form hydrogen which may create explosive mixtures. 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.
RESPIRATORY PROTECTION:	PERSONAL PROTECTIVE MEASURES 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.
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:	Off-white powder
ODOUR:	Odourless
ODOUR THRESHOLD:	Not applicable
pH:	Not available
MELTING POINT / FREEZING POINT:	Not applicable
BOILING POINT / RANGE:	Not available
FLASH POINT:	Not applicable
EVAPORATION RATE:	Not applicable
FLAMMABILITY:	Combustible
FLAMMABILITY / EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	Not available
SOLUBILITY:	Soluble in water
PARTITION COEFFICIENT:	Not applicable
AUTO-IGNITION TEMPERATURE:	Not available
DECOMPOSITION TEMPERATURE:	Not applicable
VISCOSITY:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY:	Not reactive under normal conditions of storage.
CHEMICAL STABILITY:	Stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	Not available.

CONDITIONS TO AVOID:	Avoid contact with incompatible materials.
INCOMPATIBLE MATERIALS:	Strong oxidizers, strong reducing agents and strong bases.
HAZARDOUS DECOMPOSITION PRODUCTS:	May react with metals generating explosive hydrogen gas. May give off ammonia at elevated temperatures.

SECTION 11. TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY:	LD50 (oral, rat) >2000 mg/kg (based on ingredient information).
SKIN CONTACT:	May cause mild to moderate irritation. Prolonged contact may cause inflammation and blistering.
EYE CONTACT:	Moderate to severe irritant. Prolonged contact may cause corneal damage and possibly blindness.
INGESTION:	May cause burns to the mouth, throat and esophagus.
INHALATION:	Dust may cause temporary irritation of the nose and throat. The severity of these effects would depend on the airborne concentration and duration of exposure.
CARCINOGENICITY:	Contains no ingredients considered to be carcinogenic (NTP, IARC, or OSHA).
TERATOGENICITY:	No information available.
REPRODUCTIVE TOXICITY:	No information available.
MUTAGENICITY:	No information available.
CHRONIC TOXICITY:	No information available.
TARGET ORGAN EFFECTS:	Not available.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY:	No information available.
PERSISTENCE AND DEGRADABILITY:	Not available.
BIOACCUMULATIVE POTENTIAL:	Not available.
MOBILITY IN SOIL:	Not available.
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. TRANSPORT INFORMATION

TDG	Regulated
DOT	Regulated
IATA	Regulated
IMDG	Regulated
UN NUMBER:	UN1759
PROPER SHIPPING NAME:	CORROSIVE SOLID, N.O.S. (Sulfamic acid)
CLASS:	8
PACKING GROUP:	III
IMDG HAZARDS:	Not applicable
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	None

SECTION 15. REGULATORY INFORMATION

DSL:	Ingredients are either on or exempt from the list.
WHMIS CLASS:	E
TSCA:	Ingredients are either on or exempt from the list.

SECTION 16. OTHER INFORMATION

SDS Prepared By	Product Safety Committee
Phone No.	403-262-5955
Date of Preparation	Dec 18, 2018
Disclaimer	To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.