

P302+P352:protection.P305+P351+P338:IF ON SKIN: Wash with plenty of soap and water.If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continu- rinsing.			S	ection 1: IDE	ENTIFICATION			
Relevant Identified Uses: Chemicals for various applications. Recommended Use: Drilling fluids additive Supplier: Bri-Chem Supply Ltd. 27075 Acheson Road Acheson, AB T7X 6B1 Phone Number: 780-962-9490 Emergency Phone: CHEMTREC 1-800-424-9300, 24/7 Classification Section 12: HAZARD(S) IDENTIFICATION Classification Section Hazard Class Category Hazard Class and Hazard Statement Category A.2 Skin corrosion/Irritation 2 Skin Irrit. 2 H315 A.3 Serious eye 2 Eye Irrit. 2 H319 Label Elements Labelling acc. To OSHA "Hazard Communication Standard" (CFR 1910.1200) Signal Word: Warning Pictograms GHS07 Hazard Statements H315: Causes skin irritation. H319: Causes serious eye ir	Trade Na	me:	Sulfa	mic Acid				
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-	P305+P351+P338:		Re	Remove contact lenses, if present and easy to do. Continue				
	P332+P313:			If skin irritation occurs: Get medical advice/attention				



P337+P313:	If eye irritation persists: Get medical advice/attention.
P362:	Take off contaminated clothing and wash it before reuse.
Other Hazards	
Results of PBT and vPvB Assessment:	According to the results of its assessment, this substance is not a PBT or a vPvB.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances	
Name of Substance:	Sulfamic acid
Identifiers	
CAS No:	5329-14-6
Molecular Formula:	H3NO3S
Molar Mass:	97.09 g/mol

Section 4: FIRST-AID MEASURES				
Description of First-Aid Measures				
General Notes:	Take off immediately all contaminated clothing. In cases of all doubt, or when symptoms persist, seek medical advice.			
Following Inhalation:	Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.			
Following Skin Contact:	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.			
Following Eye Contact:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.			
Following Ingestion:	Rinse mouth. Do not induce vomiting. Get medical advice/attention.			
Notes for the Doctor:	None			
Most Important Symptoms and Effects, Acute and Delayed:	These information are not available.			
Indication of Any Immediate Medical Attention and Special Treatment Needed:	None			
Section 5: FIRE-FIGHTING MEASURES				

Section 5: FIRE-FIGHTING MEASURES			
Extinguishing Media			
Suitable Extinguishing Media:	Coordinate firefighting measures to the fire surroundings.		



SAFETY DATA SHEET	
Special Hazards Arising from the Substance or Mixture:	Hazardous decomposition products: Section 10.
Hazardous Combustion Products:	Nitrogen oxides (NOx), Sulfur oxides (Sox), gas/vapor, toxic.
Advice for Firefighters:	Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.
Special Protective Equipment for Firefighters:	Chemical protection suit, self-contained breathing apparatus (SCBA)

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

For Non-Emergency Personnel:	Remove persons to safety. Ventilate affected area. Control of dust. Do not breath dust. Do not get in eyes, on skin, or on clothing. Wearing of suitable protective equipment (including personal protective equipment regerred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.	
For Emergency Responders:	Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.	
Environmental Precautions:	Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.	
Methods and Material for Cont	ainment and Cleaning Up	
Advice on How to Contain a Spill:	Take up mechanically.	
Advice on How to Clean Up a Spill:	Take up mechanically. Collect spillage.	
Other Information Relating to Spills and Releases:	Place in appropriate containers for disposal. Ventilate affected area.	
Reference to Other Sections:	Hazardous combustion products: see Section 5 Personal Protective Equipment: see Section 8 Incompatible Materials: see Section 10 Disposal Considerations: see Section 13	

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling

Measures to Prevent Fire as	Use local and general ventilation. Never add water to this
well as Aerosol and Dust	product.
Generation:	



Specific Notes/Details:Dust deposits may accumulate on all deposition surfaces in a
technical room.Handling of IncompatibleDo not mix with alkali. Do not mix with oxidizer.

Substances or Mixtures:

SAFETY DATA SHEET

Measures to Protect the Avoid release to the environment.

Advice on General Occupational Hygiene: Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Do not breathe dust. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Preventive skin protection (barrier creams, ointments) is recommended.

Conditions for Safe Storage, Including any Incompatibilities

Flammability Hazards:	None		
Incompatible Substances or Mixtures:	Incompatible materials: see Section 10.		
Protect Against External Exposure, Such as:	Heat		
Consideration of Other Advice:	Keep away from food, drink and animal feed.		
Ventilation Requirements:	Provision of sufficient ventilation.		
Packaging Compatibilities:	Keep only in original container. Only packaging which are approved (e.g. acc. To DOT) may be used.		
Specific End Use(s):	No information available.		

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Human Health Values

Endpoint	Threshold Level	Protection Goal, Route of Exposure	Used in	Exposure Time
DNEL	70.5 mg/m³	Human, inhalatory	Worker (industry)	Chronic – systemic effects
DNEL	10 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic – systemic effects



SAFETY DATA SHEET					
Environment Values					
Relevant PNECs and Other Th	reshold Levels				
Endpoint	Threshold Level		Environmental Compartment		
PNEC	1.8 mg/l		Freshwater		
PNEC	0.18 mg/l		Marine water		
PNEC	20 mg/l		Sewage Treatment Plant (STP)		
PNEC	8.36 mg/kg		Freshwater sediment		
PNEC	0.84 mg/kg		Marine sediment		
PNEC	5 mg/kg		Soil		
Exposure Controls					
Appropriate Engineering Controls:	General ventilation				
Individual Protection Measures (Personal Protective Equipment)					
Eye/Face Protection:	ve/Face Protection: Wear eye/face protectio				
Hand Protection					
Protective Gloves					
Material		Material Thickness	Breakthrough Times of the Glove Material		
IIR: isobutene-isoprene (butyl) rubber		> 0.5mm	> 480 minutes (permeation: level 6)		
NR: natural rubber, latex		> 0.5mm	> 480 minutes (permeation: level 6)		
CR: chloroprene (chlorobutac	liene) rubber	> 0.5mm	> 480 minutes (permeation: level 6)		
Wear suitable gloves. Chemic	cal protection g	loves are sui	table, which are tested according to		

EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body Protection:	Protective clothing for use against solid particulates.
Respiratory Protection:	In case of inadequate ventilation wear respiratory protection. Particle filter device (DIN EN 143)
Environmental Exposure Controls:	Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



Section	9: PHYSICAL AND CHEMICAL PROPERTIES
Information on Basic Physical	and Chemical Properties
Appearance	
Physical State:	Solid
Color:	White
Odor:	Characteristic
Other Safety Parameters	
pH (Value):	0.41 (in aqueous solution: 10 vol%, 25°C)
Melting Point/Freezing Point:	205°C slow decomposition
Boiling Point or Initial Boiling Point and Boiling Range:	Not determined
Flash Point:	Not applicable
Evaporation Rate:	Not determined
Flammability (Solid, Gas):	Non-combustible
Explosive Limits:	Not determined
Explosion Limits of Dust Clouds:	Not determined
Vapor Pressure:	0.8 Pa at 20°C
	2.5 Pa at 100°C
Density:	Not determined
Vapor Density:	This information is not available.
Relative Density:	2.13 at 20°C (water=1)
Solubility(ies)	
Water Solubility:	181.4 g/l at 20°C
Partition Coefficient	
n-Octanol/Water (log KOW):	Not relevant (inorganic)
Auto-Ignition Temperature:	Not relevant
Decomposition Temperature:	>205°C
Viscosity:	Not relevant
Explosive Properties:	None
Oxidizing Properties:	None



SAFETY DATA SHEET	
Information for Relevant Hazard Classes According to GHS:	Not relevant
Other Information:	There is no additional information.
S	ection 10: STABILITY AND REACTIVITY
Reactivity:	May be corrosive to metals.
Chemical Stability:	The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of Hazardous Reactions:	Do not mix with alkali.
Conditions to Avoid:	There are no specific conditions known which have to be avoided.
Incompatible Materials:	Bases, light metals (due to the release of hydrogen in an acid/alkaline medium), nitrites and their mixtures. Release of toxic materials with: sulfides, cyanides Liberation of excessive heat with: bases
Hazardous Decomposition Products:	Reasonable anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see Section 5

Section 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

If not otherwise specified the classification is based on: Animal studies; evidence from any other toxicity tests; Expert judgment (weight of evidence determination).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute Toxicity:	Shall not be classified as acutely toxic (oral). Dhall no be classified as acutely toxic (dermal). May be harmful if swallowed.			,
Exposure Route	Endpoir	nt Value	Species	Method
Oral	LD50	2,140 mg/kg	Rat, female	-
Dermal	LD50	>2,000 mg/kg	Rat	OECD Guideline 402
Dermal	LD0	<2,000 mg/kg	Rat	OECD Guideline 402
Skin Corrosion/Irritation: Causes skin irritation.				
Serious Eye Damage/Irritation:		Causes serious eye irrita		
Respiratory or Skin Sensitization				
Skin Sensitization:		Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.		



SAFETY DATA SHEET

			Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.			
Germ Cell M	Germ Cell Mutagenicity: Shall not be classified as germ cell mutagenic. (OEC Guideline 471, OECD Guideline 472, OECD Guideline 0ECD Guideline 476, OECD Guideline 487).					CD Guideline 474,
Carcinogeni	city					
IARC Monog	raphs:		Not listed			
National Toxicology Program (United States):		:	Not listed			
OSHA Carcinogens:		Not listed				
Reproductive Toxicity: Shall not be classified as a reproductive toxicant. (EF 83-4, OECD Guideline 414)			oxicant. (EPA OPP			
Toxicity – Single Exposure:			Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.			
Specific Tar	get Organ To	oxicity	- Repeated Exp	osure		
Exposure Route	Endpoint	Value	9	Exposure Time	Species	Method
Oral	NOAEL	929 ı	mg/kg bw/day	90 d	Rat, male	OECD Guideline 408
Oral	NOAEL	1,004 bw/d	4 mg/kg ay	90 d	Rat, male	OECD Guideline 408
Aspiration Hazard: Sh			Shall not be cla	assified as an	aspiration ha	azard.

Other Information:

There is no additional information.

Section 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic Toxicity (Acute): Based on available data, the classification criteria are not met.

Endpoint LC50	Exposure Time 96 h	Value 70.3 mg/l	Species Fathead minnow (pimephales promelas)	Method OECD Guideline 203
EC50	48 h	71.6 mg/l	Daphnia magna	OECD Guideline 202
ErC50	72 h	48 mg/l	Algae (desmodesmus subspicatus)	OECD Guideline 201
EbC50	48 h	33.8 mg/l	Algae (desmodesmus subspicatus)	OECD Guideline 201



SAFETY DATA SHEET

Aquatic Toxicit	y (Chronic):	Based on available data, the classification criteria are not i		n criteria are not met.
Endpoint	Exposure Time	Value	Species	Method
EC50	21 d	>60 mg/l	Daphnia magna	OECD Guideline 211
NOEC	72 h	18 mg/l	Algae (Desmodesmus subspicatus)	OECD Guideline 201
NOEC	21 d	19 mg/l	Daphnia magna	OECD Guideline 211
NOEC	34 d	>60 mg/l	Zebra fish (Danio Rerio)	OECD Guideline 210
LOEC	21 d	34 mg/l	Daphnia magna	OECD Guideline 211
Growth (EbCx)	72 h	13.3 mg/l	Algae (Desmodesmus subspicatus)	OECD Guideline 201
Growth Rate (ErCx) 10%	72 h	29.5 mg/l	Algae (Desmodesmus subspicatus)	OECD Guideline 201
Persistence an	d Degradability			
Biodegradatior	1:	The study does not need to be conducted because the substance is inorganic.		d because the
Persistence:		The study does not need to be conducted because the substance is inorganic.		
Bioaccumulativ	ve Potential			
N-octanol/wate	r (log KOW):	-4.34 (20°C) (calculated value)		
Mobility in Soil	:	No data available		
Results of PBT Assessment:	and vPvB	According to the results of its assessment, this substance is not a PBT or a vPvB.		
Other Adverse	Effects:	This informat	ion is not available.	
Remarks:		Wassergefährdungsklasse, WGK (water hazard class): 1		

Section 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods:	Dispose of contents/container in accordance with local/regional/national/international regulations.
Sewage Disposal-Relevant Information:	Do not empty into drains.
Waste Treatment of Containers/Packages:	Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.
Remarks:	Please consider the relevant national or regional provisions.



ection 14: TRANSPORT INFORMATION
UN2967
UN2967
UN2967
Sulfamic acid
SULPHAMIC ACID
Sulphamic acid
8
8
8
III
III
III
-
-
-
N Model Regulations
ds by Road or Rail (49 CFR US DOT) Additional Information
UN2967, Sulfamic acid, 8, III
8

Special Provisions (SP):	IB8, IP3, T1, TP33
ERG No:	154



Marine Pollutant:	ous Goods Code (IMDG) Additional Information _
Danger Label(s):	8
Excepted Quantities (EQ):	E1
Limited Quantities (LQ):	5 kg
EmS:	F-A, S-B
Stowage Category:	A
Segregation Group:	1 – Acids
International Civil Aviation Org	ganization (ICAO-IATA/DGR) Additional information
Danger Label(s):	8
Excepted Quantities (EQ):	E1
Limited Quantities (LQ):	5 kg
Sa	
	ction 15: REGULATORY INFORMATION
Safety, Health and Environme	ntal Regulations for the Product in Question
Safety, Health and Environme National Regulations (United S Toxic Substance Control Act	ntal Regulations for the Product in Question States)
Safety, Health and Environme National Regulations (United S Toxic Substance Control Act (TSCA):	ntal Regulations for the Product in Question States)
Safety, Health and Environme National Regulations (United S Toxic Substance Control Act (TSCA):	ntal Regulations for the Product in Question States) Substance is Listed
Safety, Health and Environmen National Regulations (United S Toxic Substance Control Act (TSCA): Superfund Amendment and Re The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section	ntal Regulations for the Product in Question States) Substance is Listed eauthorization Act (SARA TITLE III)
Safety, Health and Environmen National Regulations (United S Toxic Substance Control Act (TSCA): Superfund Amendment and Re The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304): Specific Toxic Chemical Listings (EPCRA Section 313):	ntal Regulations for the Product in Question States) Substance is Listed eauthorization Act (SARA TITLE III) Not listed



SAFETY DATA SHEET						
Clean Air Act:	Not listed					
Right to Know Hazardous Substance List						
Hazardous Substanc	e List (N.	J-RTK)				
Name of Substance	CAS	No	No Remarks Classification			
Sulfamic Acid	5329	-14-6	14-6 - CO.			
Legend		CO - Corros	sive			
California Environmental Not listed Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987:						
Industry or Sector Sp	pecific Av	ailable Guida	nce(s)			
NPCA-HMIS® III			Materials Identification Coatings Association.	System.		
Category	Rating	Descrip	otion			
Chronic	/	None				
Health	2	Tempo	Temporary or minor injury may occur			
Flammability	0	Material that will not burn under typical fire conditions				
Physical Hazard	0	Material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive.				
Personal Protection	-					
NFPA® 704	NFPA® 704 National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).					
Category	Degree	of Hazard	Description			
Flammability	0		Material that will not b conditions	ourn under typical fire		
Health	2			mergency conditions, can pacitation or residual injury.		
Instability	0		Material that is norma conditions.	ally stable, even under fire		
Special Hazard	-					
Chemical Safety Assessment:			al Safety Assessment h by the supplier.	has been carried out for this		



Section 16: OTHER INFORMATION				
Abbreviations and Acronyms				
49 CFR US DOT	49 CFR U.S. Department of Transportation			
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)			
DGR	Dangerous Goods Regulations (see IATA/DGR)			
DNEL	Derived No-Effect Level			
DOT	Department of Transportation (USA)			
EbC50	\equiv EC50: in this method, that concentration of test substance which results in a 50% reduction in either growth (EbC50) or growth rate (ErC50) relative to the control			
EC50	Effective Concentration 50%. The EC50 corresponds to the concentration of a tested substance causing 50% changes in response (e.g. on growth) during a specified time interval			
EmS	Emergency Schedule			
ErC50	\equiv EC50: in this method, that concentration of test substance which results in a 50% reduction in either growth (EbC50) or growth rate (ErC50) relative to the control			
ERG No	Emergency Response Guidebook - Number			
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations			
IARC Monographs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans			
ΙΑΤΑ	International Air Transport Association			
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)			
ICAO	International Civil Aviation Organization			
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air			
IMDG	International Maritime Dangerous Goods Code			
IMDG-Code	International Maritime Dangerous Goods Code			
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50% lethality during a specified time interval			
LD50	Lethal Dose 50%: the LD50 corresponds to the dose of a tested substance causing 50% lethality during a specified time interval			
LOEC	Lowest Observed Effect Concentration			



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MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")			
NOAEL	No Observed Adverse Effect Level			
NOEC	No Observed Effect Concentration			
NPCA-HMIC® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition			
OSHA	Occupational Safety and Health Administration (United States)			
PBT	Persistent, Bioaccumulative and Toxic			
PNEC	Predicted No-Effect Concentration			
vPvB	Very Persistent and very Bioaccumulative			
Key Literature References and Sources for Data:		OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200. Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).		
List of Relevant Phrases (Code and Full Text as Stated in Chapter 2 and 3)				
Code	Text			
H315	Causes skin irritation			
H319	Causes serious eye irritation			

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