

Section 1. Identification	tion	, and the second
Product Identifier	Sulphamic Acid	Version: 6 Effective Date: 25 January 2021
Other Means Of Identification	Amidosulfonic Acid	
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
Recommended Use and Restrictions On Use	Industrial acid, reactant, chemi	cal intermediate, descaler. No restrictions.
Product Family Emergency Phone 1	Organic acids -855-887-2055 Monday - Friday	8:00am - 4:30pm MST

Section 2. Hazard Identifica	tion
Hazard Classification	
Health Hazards	Skin Corrosion/Irritation – Category 2 Eye Damage/Irritation – Category 2A
Environmental Hazards	Hazardous To The Aquatic Environment – Short Term (Acute) Hazard – Category 3 Hazardous To The Aquatic Environment – Long Term (Chronic) Hazard – Category 3
Signal Word	Warning
Hazard Statement	Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Precautionary Prevention	Wash hands thoroughly after handling. Wear protective gloves, eye
Statement	and face protection. Avoid release to the environment.
Precautionary Response	IF ON SKIN: Wash with plenty water.
Statement	Specific Treatment: Treat symptomatically. Do not induce vomiting unless directed by medical personnel.



	and the second s
	If skin irritation occurs: Seek medical attention. Remove
	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, seek medical attention.
Precautionary Storage	No statement
Statement	
Precautionary Disposal	Dispose of contents/container in accordance with local regulations.
Statement	
Other Hazards	None

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Sulphamic acid	Amidosulphonic acid	5329-14-6	99

Section 4. First-Aid Measu	ires
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If irritation persists, seek medical attention. Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Most Important	Irritation, headache, shortness of breath, and nausea.
Symptoms and Effects	
Both Acute and Delayed	
Immediate Medical	No specific treatment. Treat symptomatically.
Attention and Special	
Treatment	

Section 5. Fire-Fighting Measures		
Suitable and Unsuitable	Dry chemical, CO ₂ , alcohol foam, or water spray.	
Extinguishing Media		
Hazardous	Oxides of nitrogen, oxides of sulphur, oxides of carbon, and	
Combustion Products	ammonia.	



Specific Hazards Arising	Thermal degradation may produce toxic gases and mist, such as
From the Product	sulphur oxides and nitrogen oxides.
Special Protective	Fire-fighters should wear self-contained breathing apparatus and full
Equipment and	protective clothing. Use water spray to cool containers and structures
Precautions For Fire-	exposed to fire.
Fighters	-

Section 6. Accidental Releas	se Measures
Personal Precautions,	Chemical resistant gloves (neoprene), coveralls (rubber) and boots rubber.
Protective Equipment and	Isolate area and evacuate unnecessary personnel. Ensure adequate
Emergency Procedures	ventilation.
Environmental	Do not allow to enter the storm water systems or surface drains. Dike
Precautions	and contain.
Methods and Materials	Sweep up spilled product without generating dust. Place in a suitable
For Containment and	container for disposal. Neutralize with lime slurry or soda ash. Flush
Clean-Up	area with water to remove residues.

Section 7. Handling and Storage		
Precautions For Safe	Handle with care. Corrosive in contact with moisture.	
Handling		
Conditions For Safe	Store in a cool dry place. Keep containers closed when not in use.	
Storage	Protect against water, moisture, and physical damage. Avoid incompatible materials.	

Section 8. Exposure Contro	ols / Personal Pro	tection		
Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
Sulphamic acid	No information	available		
	* Immediately D	angerous to Life and	Health	
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering	Provide exhaust ventilation to keep the airborne concentration below			
Controls	the applicable workplace exposure limits. Ensure safety shower and			
	eyewash station	are available.		
Individual Protective	For dusty or mis	ty conditions:		
Measures				
Eye / Face Protection	Safety glasses.			
Skin Protection	Chemical resista	nt coveralls, gloves		
Respiratory Protection	NIOSH approve	d respirator		



Section 9. Physical and Chemical Properties		
Appearance	White crystals	
Odour	No odour	
Odour Threshold	Not available.	
pH	1.18	
Flash Point	Not applicable	
Boiling Point and Boiling Range	Decomposes at 209 °C	
Melting Point and Freezing Point	205 °C	
Evaporation Rate	Not applicable	
Flammability (solid, gas)	Not flammable	
Upper and Lower Flammability or	No data	
Explosive Limits		
Vapour Pressure	Not applicable	
Vapour Density	Not applicable	
Relative Density	2.125	
Solubility	14.7 % @ 0 °C	
Partition co-efficient, n-	No data	
Octanol/Water		
Auto-ignition Temperature	No data	
Decomposition Temperature	209 °C	
Viscosity	Not applicable	

Section 10. Stability and Re	eactivity	
Reactivity	Stable	
Chemical Stability	Stable when dry, but hydrolyses in solution. Sulphamic acid decomposes at 208 °C. At room temperature, dilute solutions are stable for many months. At higher temperatures and with stronger solutions, hydrolysis of the acid and its ammonium salts occurs, forming ammonium hydrogen sulphate and ammonium sulphate. This reaction occurs much more rapidly as the pH lowers.	
Possibility of Hazardous	Will not occur	
Reactions		
Conditions to Avoid	Avoid dispersions of sulphamic acid particulates into air and contact with heat. Avoid the use of non vented containers if concentrated solutions of the acid are made and heated, as a runaway hydrolysis reaction will occur, generating sufficient steam to cause an explosion.	
Incompatible Materials	Chlorine, potassium chlorate, nitric acid, metal sulphides, nitrates, nitrites, strong bases, bromine, and strong oxidizers.	
Hazardous Decomposition	Thermal decomposition products may include toxic and corrosive	
Products	fumes of ammonia, and toxic oxides of nitrogen and sulphur. NOTE:	



Chlorination of sulphamic acid with acidic ammonium chloride solutions gives the powerfully explosive oil, nitrogen trichloride. Heating mixtures of barium, potassium, sodium amidosulphates or sulphamic acid, with sodium or potassium nitrates or nitrites, leads to reactions which may be explosive. Mixing sulphamic acid with fuming nitric acid results in violent release of nitrous oxide.

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulphamic Acid	1.45g/kg (Rat)		
Likely Routes of Exposure	•		
Skin:	May cause redn	ess and, blistering of	f skin, can lead to dermatitis.
Eyes:			e eyes. Symptoms may include:
Inhalation:	Symptoms of e coughing, chest	pain and breathing d . Accumulation of	/or change of vision. le: nasal discharge, hoarseness, lifficulty, general irritation of the fluid in the lungs may occur
Ingestion:	May cause ga	-	ation, nausea, vomiting, and ey damage.
Acute Toxicity Estimates (ATE)	Oral (Rat): 3.16	g/kg	•
STOT (Specific Target	Not classified		
Organ Toxicity) – Single			
Exposure			
Aspiration Toxicity	Not classified		
STOT (Specific Target	Not classified		
Organ Toxicity) – Repeated Exposure			
Skin Corrosion / Irritation	Mild irritant		
Serious Eye Damage /	Moderate irritar	nt	
Irritation			
Respiratory or Skin	Not classified		
Sensitization			
Carcinogenicity	Not listed.		
Reproductive Toxicity - Sexual Function and Fertility	Not classified		
- Development of Offspring	Not classified		



- Effects on or via Lactation	Not classified
Germ Cell Mutagenicity	Not classified
Interactive Effects	Not classified
Other Information	None known

Section 12. Ecological Information		
Ecotoxicity	LC50: 14.2 mg/L (Pimephales promelas) 96 hr	
Persistence and	Will not persist	
Degradability		
Bioacumulative Potential	No data	
Biodegradability	No data	
Mobility in Soil	Not available	
Other Adverse Effects	None known	

Section 13. Disposal Considerations	
Disposal Considerations	Dispose of contents/container in accordance with local regulations.

Section 14. Transport Information	
UN Number	2967
UN Proper Shipping Name	Sulphamic Acid
Transport Hazard	8
Class(es)	
Packaging Group	III
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	154

Section 15. Regulatory Information		
Canada – DSL Inventory	All components of this product are either on the Domestic Substances	
	List (DSL), Non-Domestic Substances List (NDSL), or exempt	
TSCA	All components of this product are either on the Toxic Substances	
	Control Act (TSCA) Inventory List or exempt	
Additional Information	None	



Section 16. Other Information	
NFPA Rating	Health-2/ Flammability-0/Reactivity-2/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-0/Reactivity-2/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	28 September , 2012
Date of Latest Revision: 25 January 2021	

Disclaimer

Notice to reader

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. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Chemfax Products Ltd. expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided.