

PRODUCT: SULFAMIC ACID 15%

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: T. DONOVAN & SON (1997) LTD.
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SAINT JOHN, NEW BRUNSWICK
CANADA E2M 3V2
TOLL FREE: 1-888-799-2645 / LOCAL (506) 642-1500

PRODUCT NAME: Sulfamic Acid 15%

MATERIAL USE: High traction floor cleaner/degreaser. Use only as directed.

EMERGENCY PHONE NUMBER: (613)-996-6666

SECTION 02: HAZARDS IDENTIFICATION



SIGNAL WORD: WARNING.

HAZARD CLASSIFICATION: Causes skin irritation - Category 2.
Causes serious eye irritation - Category 2A.
Harmful if swallowed - Category 4.
Harmful to aquatic life with long lasting effects - Category 3.

HAZARD STATEMENT: **H315:** Causes skin irritation.
H319: Causes serious eye irritation.
H302: Harmful if swallowed.
H412: Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT: **P260:** Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse SKIN with water/shower.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P340: IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P301+P312: IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
P310: Immediately call a POISON CENTER or doctor/physician.
P363: Wash contaminated clothing before reuse.
P501: Dispose of contents/container in accordance with local/ Provincial / Federal / international regulations. .

OTHER HAZARDS: Results of Persistence, Bioaccumulation and Toxicity (PBT) and Very Persistent and Very Bioaccumulative (vPvB) Assessment:

- PBT: Not Applicable.
- vPvB: Not Applicable.

PRODUCT: SULFAMIC ACID 15%

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS #	WT. %
Sulfamic Acid	5329-14-6	15 %*

Definitions:

CAS - Chemical Abstract Service registry number.

WT. % - Percent Weight.

SECTION 04: FIRST AID MEASURES

GENERAL ADVICE:	Immediately remove any clothing soiled by the product. Symptoms of poisoning, may even occur after several hours; therefore, medical observation for at least 48 hours after exposure may be necessary.
IF INHALED:	Move the victim too fresh air and place the victim in a comfortable resting position to breathe. Call a poison control center or doctor if the victim has difficulty breathing.
IN CASE OF SKIN CONTACT:	Immediately rinse with water. If irritation continues, consult a doctor. Seek immediate medical help for blistering and open wounds.
IN CASE OF EYE CONTACT:	Remove contacts lenses if worn, if possible. Rinse opened eye(s) for several minutes with running water. Then consult a doctor.
IF SWALLOWED:	Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.
THE MOST IMPORTANT SYMPTOMS AND EFFECTS, WHETHER ACUTE OR DELAYED:	<ul style="list-style-type: none"> • Severe irritation on skin and mucous membranes. • Breathing difficulty. • Cramp. • Coughing.
DANGER ISSUES:	<ul style="list-style-type: none"> • Harmful if swallowed. • Causes serious eye irritation. • Causes serious skin irritation.
NOTE TO PHYSICIANS:	<ul style="list-style-type: none"> • Medical supervision for at least 48 hours. Monitor circulation and oxygen for respiration if necessary.

SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY:	Not Applicable.
SUITABLE EXTINGUISHING MEDIA:	Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:	Formation of toxic gases is possible during heating or in case of fire.
ADVICE FOR FIRE FIGHTERS:	Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.
ENVIRONMENTAL PRECAUTIONS:	Do not allow product to enter sewers, or ground water.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:	Absorb spill with absorbent / binding material (sand, diatomite, acid binders, universal binders sawdust). Send for recovery or disposal in suitable receptacles. Dispose contaminated material as waste according to Section 13 (Disposal Considerations).
REFERNCE TO OTHER SECTIONS:	Sections 7 (Handling and Storage), 8 (Exposure Control/Personal Protection), and 13 (Disposal Considerations).

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Use in well ventilated areas. Open and handle receptacles with care. Avoid splashes or sprays in enclosed areas. Avoid contact with eyes and skin. Wash hands before breaks and at the end of work. Use personal protective equipment as required.
CONDITIONS FOR SAFE STORAGE:	Avoid alkalis and strong oxidizers. Store in cool, dry conditions in well-sealed

PRODUCT: SULFAMIC ACID 15%

SECTION 07: HANDLING AND STORAGE

receptacles.

Requirements to be met by storerooms and receptacles: Store only in original receptacle. Do not store in metal containers (aluminum or steel).

Information about storage in one common storage facility: Store away from food stuff. Do not store with alkalis or oxidizing agents.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**GENERAL PROTECTIVE AND HYGIENIC MEASURES:**

Follow the usual precautionary measures for safely handling chemicals. Keep away from foodstuff, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eye and skin. Use only in well ventilated areas.

COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE

The product does not contain any relevant quantities of materials with critical values requiring monitoring at the workplace.

ENGINEERING CONTROLS:

No further relevant information available.

RESPIRATORY PROTECTION:

Not required under normal conditions. Use in well ventilated area. For spills and insufficiently vented area, use respiratory protection.

SKIN AND BODY PROTECTION:Material of gloves: Gloves should be impermeable to acidic substances; Nitrile.
Penetration time of glove material: Not known.
Body protection: Protective work clothing.**EYE/FACE PROTECTION:**

Safety glasses or face shield.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**PHYSICAL STATE:**

Green Liquid.

ODOUR:

Mild.

ODOUR THRESHOLD:

Not Determined.

PH:

5.5.

MELTING POINT/FREEZING POINT:

Not Determined.

BOILING POINT:

100°C (212°F).

FLASH POINT, METHOD:

Not Applicable.

EVAPORATION RATE:

Not Determined.

FLAMMABILITY (SOLIDS AND GASES):

Not Applicable.

DANGER OF EXPLOSION:

Product does not present an explosion hazard.

UPPER EXPLOSION LIMIT:

Not Determined.

LOWER EXPLOSION LIMIT:

Not Determined.

VAPOUR PRESSURE:

Not Determined.

VAPOUR DENSITY (AIR=1):

Not Determined.

SPECIFIC GRAVITY (WATER=1):1.035 g/cm³ (8.637 lbs/gallon).**SOLUBILITY IN WATER (% W/W):**

Fully miscible.

AUTO IGNITING:

Product is not self-igniting.

AUTO IGNITION TEMPERATURE:

Not Determined.

PARTITION COEFFICIENT

Not Determined.

N-OCTANOL/WATER:**DECOMPOSITION TEMPERATURE:**

Not Determined.

VISCOSITY:

Not Determined.

SOLVENT CONTENT:

Volatile Organic Compounds (VOC) (California): 0% (Technology Transfer Network Emission Measurement Center Method 24).

PRODUCT: SULFAMIC ACID 15%

SECTION 10: STABILITY AND REACTIVITY

POSSIBILITY OF HAZARDOUS REACTIONS:	Incompatible with strong alkali and oxidizers.
CONDITIONS TO AVOID:	Excessive heat and contact with oxidizers. No decomposition if used and stored according to specifications.
INCOMPATIBLE MATERIALS:	No further relevant information available.
HAZARDOUS DECOMPOSITION PRODUCTS:	Burning may produce carbon dioxide or carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	
ORAL LD50:	No Information Available.
INHALATION LC50:	No Information Available.
DERMAL LD50:	No Information Available.
SUB-ACUTE TO CHRONIC TOXICITY:	No further relevant information available.
PROBABLE ROUTES OF EXPOSURE:	Inhalation, eyes, skin, and ingestion.
SKIN CORROSION / IRRITATION:	Causes irritation on skin and mucous membrane.
SERIOUS EYE DAMAGE / EYE IRRITATION:	Causes eye irritation.
RESPIRATORY OR SKIN SENSITIZATION:	No known sensitizing effects.
ADDITIONAL INFORMATION:	Corrosive. Swallowing will cause strong irritating effect on mouth and throat and may cause perforation to the esophagus and stomach.
CARCINOGENICITY:	National Toxicology Program (NTP): None of the ingredients is listed. Occupational Safety and Health Administration (OSHA): No further relevant information available.
SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE:	No Information Available.
STOT - REPEAT EXPOSURE:	No Information Available.
ASPIRATION HAZARD:	No Information Available.
ACUTE EFFECTS (ACUTE TOXICITY, IRRITATION AND CORROSIVITY):	Causes irritation to skin and eyes.

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY:	Not readily biodegradable.
BIOACCUMULATIVE POTENTIAL:	No further relevant information available.
AQUATIC TOXICITY:	No further relevant information available.
MOBILITY IN SOIL:	No further relevant information available.
GENERAL NOTES:	Do not allow undiluted product or large quantities of product to reach ground water, water course or sewage systems.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, Provincial and Federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual material should be treated as hazardous.
PACKAGING:	Disposal must be made according to official local, Provincial and Federal laws and regulations.
RECOMMENDED CLEANSING AGENT:	Water, if necessary with cleansing agents.

PRODUCT: SULFAMIC ACID 15%

SECTION 14: TRANSPORT INFORMATION

Transportation of Dangerous Goods (TDG):	Regulated.
International Maritime Dangerous Goods (IMDG):	Regulated.
International Air Transport Association (IATA):	Regulated.
UNITED NATIONS (UN) NUMBER:	2967
TRANSPORT HAZARD CLASS:	8
PACKING GROUP:	III
PROPER SHIPPING NAME:	UN2967, CORROSIVE LIQUID, ACIDIC, INORGANIC N.O.S. (SULFAMIC ACID SOLUTION).
SPECIAL PRECAUTIONS:	<ul style="list-style-type: none"> • Danger code (Kemler): 80. • EmS (Emergency Schedules) Number: FA, SB. • Segregation groups: Acids.
MARINE POLLUTANT:	No.

SECTION 15: REGULATORY INFORMATION

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION:	D2B.
HAZARDOUS PRODUCT REGULATIONS (HPR) COMPLIANCE:	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.
Canadian Domestic Substances List (DSL):	All ingredients are listed.
Canadian Ingredient Disclosure List (Limit 0.1%):	None of the ingredients are listed.
Canadian Ingredient Disclosure List (Limit 1%):	None of the ingredients are listed.
National Institute for Occupational Safety and Health (NIOSH):	None of ingredients are listed.
UNITED STATES (US) FEDERAL REGULATIONS:	
<i>Superfund Amendments and Reauthorization Act (SARA):</i>	Section 355 (extremely hazardous substances): None of ingredients are listed. Section 313 (Specific toxic chemical listings): None of ingredients are listed.
EPA (Environmental Protection Agency):	None of ingredients are listed.
<i>US Toxic Substances Control Act:</i>	All of ingredients are listed.
US STATE OR LOCAL REGULATIONS:	State Right-to-Know Listings: None of the ingredients are listed. Prop 65 (California): <ul style="list-style-type: none"> • Chemicals known to cause cancer: None of ingredients are listed. • Chemicals known to cause reproductive toxicity for females: None of ingredients are listed. • Chemicals known to cause reproductive toxicity for males: None of ingredients are listed. • Chemicals known to cause developmental toxicity: None of ingredients are listed.

PRODUCT: SULFAMIC ACID 15%

SECTION 16: OTHER INFORMATION

Hazardous Materials Identification System (HMIS) Hazard ID:

HEALTH	2
FLAMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	-

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *-Chronic health effect

National Fire Protection Association (NFPA):



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

PREPARED BY: T. Donovan & Son (1997) Ltd.
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DISCLAIMER:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Regulatory requirements are subject to change and may differ between various locations. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.