

HI3843B-0 - Bleach Reagent B

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Safety data sheet according to U.S.A. Federal Hazcom 2012 and Canadian Regulation SOR/88-66					
SECTION 1. Identif	ication of the sub	ostance/mixture and of the company/undertaking.			
1.1. Product identifier.					
Code. Product name. Chemical name and synonym.		HI3843B-0 Bleach Reagent B SULFAMIC ACID			
1.2. Relevant identified us	ses of the substance or	mixture and uses advised against.			
Intended use.		Determination of Bleach in Water Samples.			
1.3. Details of the supplie	r of the safety data shee	ət.			
Name. Full address. District and Country.		Hanna Instruments S.R.L. str. Hanna Nr 1 457260 loc. Nusfalau (Salaj) Romania Tel. (+40) 260607700 Fax. (+40) 260607700			
e-mail address of the co responsible for the Safet		sds@hannainst.com			
Product distribution by:		Hanna Intruments, Inc - 584 Park East, Woonsochet, Rhode Island, USA 02895 - Technical Service Contact Information: +1-800-426-6287			
1.4. Emergency telephone	e number.				
For urgent inquiries refer to.		USA Emergency Contact Information: +1-800-424-9300 - CHEMTREC 24 hours/365 days - International Emergency Contact Information: +1-703-527-3887 - CHEMTREC 24hours/365 days			
SECTION 2. Hazard	ds identification.				
2.1. Classification of the s	substance or mixture.				
1910.1200). The product	t thus requires a safety da	int to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR atasheet. r health and/or the environment are given in sections 11 and 12 of this sheet.			
Classification and Hazard Statement. Eye irritation, category 2		Causes serious eye irritation.			
Skin irritation, catego		Causes skin irritation.			
Hazard pictograms:					
Signal words:	Warning				
Hazard statements: H319 H315	Causes serious eye irrit Causes skin irritation.	ation.			
Precautionary statement Prevention: P280 Response: P302+P352	Wear protective gloves IF ON SKIN: Wash with	/ eye protection / face protection.			
P305+P351+P338	IF IN EYES: Rinse caut Continue rinsing.	iously with water for several minutes. Remove contact lenses, if present and easy to do.			



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SECTION 2. Hazards identification. ... / >>

P362 Storage:	If eye irritation persists: Get medical advice / attention. Take off contaminated clothing.				
Disposal:					
2.2. Other hazards.					
Environmental classificat	ion as for Reg. (EU)	1272/2008 (CLP):			
The product is classified	as hazardous for en	vironment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).			
Classification and Hazard Hazardous to the aqua		aronic toxicity, category 3 Harmful to aquatic life with long lasting effects.			
Hazard statements: H412	Harmful to aquatic	life with long lasting effects.			
Precautionary statements Prevention:	s:				
Response:					
Storage:					
Disposal:					
Additional hazards. Information not available.					
SECTION 3. Compo	osition/inform	ation on ingredients.			
3.1. Substances.					
Contains:					
Identification.	x = Conc. %.	Classification:			
SULPHAMIC ACID CAS. 5329-14-6	100				
	100	Eye irritation, category 2 H319, Skin irritation, category 2 H315, Hazardous to the aquatic environment, chronic toxicity, category 3 H412			
EC. 226-218-8 INDEX. 016-026-00-0	100				
EC. 226-218-8					
EC. 226-218-8 INDEX. 016-026-00-0 * There is a batch to batc	ch variation.				
EC. 226-218-8 INDEX. 016-026-00-0 * There is a batch to batc	ch variation.	Hazardous to the aquatic environment, chronic toxicity, category 3 H412			
EC. 226-218-8 INDEX. 016-026-00-0 * There is a batch to batc The full wording of hazar	ch variation.	Hazardous to the aquatic environment, chronic toxicity, category 3 H412			
EC. 226-218-8 INDEX. 016-026-00-0 * There is a batch to batc The full wording of hazard 3.2. Mixtures.	ch variation. d (H) phrases is give	Hazardous to the aquatic environment, chronic toxicity, category 3 H412			



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SECTION 4. First aid measures. ... / >>

For symptoms and effects caused by the contained substances, see chap. 11.

4.3. Indication of any immediate medical attention and special treatment needed.

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

If there are no contraindications, spray powder with water to prevent the formation of dust. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product and place it in containers for recovery or disposal. If the product is flammable, use explosion-proof equipment. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.



8.1. Control parameters.

Information not available.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations. HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (OSHA 29 CFR 1910.138). Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

e	operaes.
Appearance	solid powder
Colour	white
Odour	odourless
Odour threshold.	Not available.
pH.	1 pH - 30 g/L
Melting point / freezing point.	Not available.
Initial boiling point.	Not applicable.
Boiling range.	Not available.
Flash point.	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	2.200
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information.	
Total solids (250°C / 482°F)	100,00 %

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.



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SECTION 10. Stability and reactivity. ... / >>

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture: LC50 (Inhalation - mists / powders) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture:

SULPHAMIC ACID LD50 (Oral). LD50 (Dermal).

SKIN CORROSION / IRRITATION. Causes skin irritation.

SERIOUS EYE DAMAGE / IRRITATION. Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITISATION. Does not meet the classification criteria for this hazard class.

GERM CELL MUTAGENICITY. Does not meet the classification criteria for this hazard class.

CARCINOGENICITY. Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY. Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE. Does not meet the classification criteria for this hazard class.

STOT - REPEATED EXPOSURE. Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD. Does not meet the classification criteria for this hazard class.

Not classified (no significant component). Not classified (no significant component). Not classified (no significant component). Not classified (no significant component).

1050 mg/kg Guinea pig > 2000 mg/kg Rat



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SECTION 12. Ecological information.

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity.

SULPHAMIC ACID LC50 - for Fish.

70.3 mg/l/96h Pimephales promelas

12.2. Persistence and degradability.

SULPHAMIC ACID Solubility in water. > 10000 mg/l Biodegradability: Information not available.

12.3. Bioaccumulative potential.

SULPHAMIC ACID Partition coefficient: n-octanol/water.

0.1 Log Kow

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to dangerous goods transport regulations. CONTAMINATED PACKAGING Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

14.1. UN number.

ADR / RID, IMDG, IATA: 2967

14.2. UN proper shipping name.

ADR / RID:	SULPHAMIC ACID
IMDG:	SULPHAMIC ACID
IATA:	SULPHAMIC ACID



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SECTION 14. Transport information. />>

14.3. Transport hazard class(es).

ADR / RID:	Class: 8	Label: 8	
IMDG:	Class: 8	Label: 8	
IATA:	Class: 8	Label: 8	



14.4. Packing group.

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards.

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user.

ADR / RID: HIN - Kemler: 80 Limited Quantities: 5 kg Tunnel restriction code: (E) Special Provision: -IMDG: EMS: F-A, S-B Limited Quantities: 5 kg Maximum quantity: 100 Kg IATA: Cargo: Packaging instructions: 864 Maximum quantity: 25 Kg Packaging instructions: 860 Pass.: Special Instructions: A803

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

U.S. Federal Regulations.

TSCA: All components are listed on TSCA Inventory.

Clean Air Act Section 112(b): No component(s) listed.

Clean Air Act Section 602 Class I Substances: No component(s) listed.

Clean Air Act Section 602 Class II Substances: No component(s) listed.

Clean Water Act – Priority Pollutants: No component(s) listed.

Clean Water Act – Toxic Pollutants: No component(s) listed.

DEA List I Chemicals (Precursor Chemicals): No component(s) listed.

DEA List II Chemicals (Essential Chemicals):

US



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SECTION 15. Regulatory information. ... / >>

No component(s) listed.

EPA List of Lists: 313 Category Code: No component(s) listed.

EPCRA 302 EHS TPQ: No component(s) listed.

EPCRA 304 EHS RQ: No component(s) listed.

CERCLA RQ: No component(s) listed.

EPCRA 313 TRI: No component(s) listed.

RCRA Code: No component(s) listed.

CAA 112 (r) RMP TQ: No component(s) listed.

State Regulations.

Massachussetts: No component(s) listed.

Minnesota: No component(s) listed.

New Jersey: 5329-14-6 SULPHAMIC ACID

New York: No component(s) listed.

Pennsylvania: No component(s) listed.

California: No component(s) listed.

Proposition 65: This product does not contain any substances know to the State of California to cause cancer, reproductive harm or birth defects.

International Regulations. Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None.

Substances subject to the Rotterdam Convention: None.

Substances subject to the Stockholm Convention: None.

Candadian WHMIS. Information not available.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Eye Irrit. 2Eye irritation, category 2Skin Irrit. 2Skin irritation, category 2Aquatic Chronic 3Hazardous to the aquatic environment, chronic toxicity, category 3H319Causes serious eye irritation.H315Causes skin irritation.

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SECTION 16. Other information. ... / >>

H412

Harmful to aquatic life with long lasting effects.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323



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SECTION 16. Other information. ... / >>

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 04 / 09 / 10 / 11 / 12 / 14.