



Materials Safety Data Sheet

According to 1907/2006/EG, Article 31, ALL United States Occupational Safety and health Administration Standards (29 CFR 1910, 1200), U.S. State equivalent Standards and Canadian WHMS (Controlled Products regulations) required information is included in appropriate sections based on the U.S. ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the countries listed above. This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.

Print Date: October 8, 2010

Version #1.03

Edited: October 8, 2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: SX-E™
Product Number: ---
Brand: Sunsonix-E™
Materials Use Industrial applications: General-purpose cleaning additive.
Company: Sunsonix™
859 Pheland Ct
Milpitas, CA 95035
USA

Product Use: Additive for cleaning applications
Manufactured/Supplied by: Sunsonix™
859 Pheland Ct.,
Milpitas, CA 95035
USA

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CHEMTREC: +1 800-424-9300 (US)
CANUTEC: +613-996-6666 (Canada)

Note: ALL EU (1907/2006/EG, Article 31), United States Occupational Safety and health Administration Standards (29 CFR 1910, 1200), U.S. State equivalent Standards and Canadian WHMS (Controlled Products regulations) required information is included in appropriate sections based on the U.S. ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the countries listed above. This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.



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2. HAZARD IDENTIFICATION

Identification of Hazards: Not applicable

Specific Considerations for Humans and Environment:

Only for commercial use/Experts

Classification:

According to the current regulations there is no labeling requirement for the product. This is based on the method of calculations of the "Generally Accepted Guidelines of the EU" in its latest relevant version.

Classification System:

The classification conforms to the latest EU lists but is amended with literature data and with company information.

U.S. TSCA Status: TheSX-E™ solution component is not included in the TSCA Inventory. In accordance with the conditions listed in 40 CFR 720.36 and 721.47, this product must be used only for research and development, pharmaceutical manufacture or export. It must be used by, or directly under the supervision of a technically qualified individual. The manufacturer must be consulted prior to using this material for other applications. Other requirements may apply.



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3. COMPOSITION /DETAILS OF CONSTITUENTS

Chemical Characterization:

Description:

Mixture of non-hazardous components depicted here

CAS-No.	EINECS	Concentration
SX-E™		
EU: Proprietary Compound	Proprietary Compound	0.3 to 15% in DIW
US: Proprietary Compound	Proprietary Compound	
Proprietary Component	Proprietary Compound	<1%
Deionized water		
7732-18-5		Balance

Synonyms: SX-E™, Sunsonix-E™



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4. FIRST AID MEASURES

General Remarks:	No specific measures required Victims of chemical exposure in general must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Remove or cover gross contamination to avoid exposure to rescuers. Take a copy of label and MSDS to health professional with victim.
If Inhaled:	If vapors mist, or sprays of this product are breathed in, move person into fresh air. Seek medical attention if adverse reaction to product is observed.
In case of skin contact:	In general the substance is considered a non-irritant.
In case of eye contact:	If this product's liquid or vapors enter the eyes, open victim's eyes while under gently running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs or if adverse effect continues after flushing.
If ingested:	Seek medical attention if adverse effect occurs.



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5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point

Auto ignition temperature

Flammable limits (in air by volume %)

Non-flammable.

Not applicable

Not applicable

Not applicable

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

E.G. use water spray, alcohol-resistant foam, dry chemical, Halon, carbon dioxide, or any "ABC" Class.

Fire extinguishing materials not to be used:

None known

NO SPECIFIC MEASURES REQUIRED

6. ACCIDENTAL RELEASE MEASURES OF SOLUTION

Personal Precautions:

Non required

Environmental Precautions:

No specific measures required.

Measured in Case of Spill/Leak:

Pick up with liquid absorbent material (e.g., sand, soil, acid absorbent, universal absorbent, saw dust, or diatomaceous earth (Kieselgur))

Additional Remarks:

No dangerous materials are released.



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7. HANDLING AND STORAGE

Handling:

Information on Safe Handling: No specific measures required.

Information on Fire and Explosion Hazards:
No specific measures required.

Storage:

Requirements for Storage Area and Containers:
No specific measures required.

Clustering/Storage with Other Materials:
No restrictions.

Additional Remarks on Storage Conditions:
None.

Storage Classification: None with regards to occupational hazard regulations.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional Information with regards to technical equipment and machines:

No further information. See also section 7.

Components relevant to maximum exposure limits:

Chemical Name	CAS #	Exposure Limits in Air							
		ACGIH-TLV		OSHA-PELs		NIOSH-RELS		NIOSH	Other
		TWA [ppm]	STEL [ppm]	TWA [ppm]	STEL [ppm]	TWA [ppm]	STEL [ppm]	IDLH [ppm]	[ppm]
SX-E™	Proprietary Compound	NE	NE	NE	NE	NE	NE	NE	NE
Proprietary Component	---	NE	NE	NE	NE	NE	NE	NE	NE
Deionized Water	7732-18-5	NE	NE	NE	NE	NE	NE	NE	NE

Contains no substances with established occupational exposure limit values.

NE = Not established



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Additional Remarks:

Based on available data at date of generation of MSDS.

Personal protective equipment:

General Work and Hygiene Practices:

Generally used safety practices when handling chemicals apply.

Respiratory protection:

Not required.

Hand protection / Glove Materials:

For prolonged or repeated contact use protective gloves. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

>8 hour/hours (breakthrough time): Viton;

1-4 hour/hours (breakthrough time): nitrile rubber, neoprene, PVC

Eye protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Recommended: Splash goggles or safety glasses

Hygiene measures:

General industrial hygiene practice. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Common Remarks:

Appearance

Clear colorless to yellow, odorless liquid

Change in State

Boiling point >100 °C (212 °F)

Freezing/Melting point <-10 °C (14 °F)

Flammpoint

Flash point Not applicable

Auto Ignition Temperature

Auto Ignition temperature The product is not spontaneously inflammable

Explosion Hazard

Lower explosion limit The product poses no explosion hazard.

Upper explosion limit The product poses no explosion hazard.

Vapor Pressure

Vapor Pressure @ 25°C: 13 hPa (similar to water)

Vapor Density (water=1) ~1

Evaporation Rate (n-BuAc=1) Similar to water

Density:

Density at 20°C: ~1,003 g/cm³

Solubility/Mixability with Water

Water solubility completely soluble

Solubility Easily soluble in cold water, hot water.

Dispersibility Properties See solubility in water.

Other Properties

pH neutral

Volatility 55 to 60% (v/v)



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Viscosity	Dynamic: 10 to 40 cP
Expansion ratio	Not applicable
Odor threshold	Not applicable
Specific Gravity @ 20°C (water=1)	~1
Specific Volume	Not applicable

Log coefficient water/oil distribution Not determined

Solvent Content (other than water)

Organic Solvents: 0%

VOC (EU): 0%

10. STABILITY AND REACTIVITY

Thermal Decomposition / Conditions to avoid:

No decomposition with recommended storage and handling.

Hazardous reactions:

No known hazardous reactions known.

Hazardous decomposition products:

No known hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION (see also Section 8)

Acute Toxicity:

Primary Irritation:

Skin	No irritation
Eyes	No irritation
Sensitization	No sensitizing affects known.



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Additional toxicological remarks

According to the current regulations there is no labeling requirement for the product. This is based on the method of calculations of the "Generally Accepted Guidelines of the EU" in its latest relevant version. When properly handled and used the product causes according to our experience and the available information no effects hazardous to health.

12. ECOLOGICAL INFORMATION

Remarks with regards to degradability / persistence

The product is fully biologically degradable.

Environmental precautions No known significant effects or critical hazards.

Products of degradation These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO₂ etc.).

Toxicity of the products of Biodegradation The product itself and its products of degradation are not toxic

Additional remarks: Water hazard classification I (List categorization): slightly endangering (according to "Annex 2, General Administrative Regulation on the Classification of Substances Hazardous to Waters into Hazard Classes" (1999), German Federal Gazette Nr. 98a (1999) Footnote 14" 476, 477)

Soil absorption/mobility

It is unlikely that SX-E™ and its derivatives would accumulate within plant tissue through its application to the soil. Natural mechanisms already exist for the degradation and/or utilization of SX-E™ and its derivatives in the soil/plant micro system.



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Elimination information (persistence and bio-degradability)

Bio-degradable: SX-E™ and its derivatives are naturally occurring substances produced by certain common bacteria, and are rapidly and completely mineralized in the environment.

Ecotoxicity effects

Bio-degradable: SX-E™ and its derivatives are naturally occurring substances produced by certain common bacteria, and are rapidly and completely mineralized in the environment. As a minor formulation component, and given its rapid and complete mineralization, there is no reasonable expectation that SX-E™ and its derivatives will appear in drinking water.

Other adverse effects

This product does not contain any component with ozone depletion potential.

13. DISPOSAL CONSIDERATIONS

Product: Smaller quantities can be disposed off together with regular domestic waste. The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Waste Code Number:

16 05 09

Contaminated packaging

Dispose of as unused product.



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14. TRANSPORT INFORMATION

Not classified as dangerous/hazardous material according to transport regulations:

Marine pollutant (according to 'Marine Transportation' IMDG/GGVSee): No

Transport per ground ADR/RID und GGVS/GGVE (border crossing, inland): None

ADR/RID-GGVS/E classification: None

Airtransport ICAO-TI: None

ICAO/IATA-classification: None

UN "Model Regulation": None

DOT (US) This product is NOT classified as Dangerous Goods, per U,S, DOT regulations, under 49 CFR 172.101

TDG Classification Not regulated

IMDG Class Not regulated

IATA-DGR This product is NOT classified as dangerous goods, per the International Air Transport Association

Transport Canada Transportation of dangerous goods regulations

This product is NOT classified as Dangerous Goods, per regulations of Transport Canada.



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15. REGULATORY INFORMATION

Labeling according to EU Regulations:

- When handling chemicals, the commonly accepted rules apply.
- The substance is not classified according to EU legislation.
- The product does not require special labeling according to e.g., EG-Directive/GefStoffV (Ordinance on Hazardous Substances, Germany).

Special labeling of certain compositions / make-ups:

- Only for commercial users and experts.

National classifications:

- No classification required according to e.g. Ordinance on Occupational Safety (BetrSichV)

Water Hazard:

- Water hazard classification I (List categorization): slightly endangering (according to "Annex 2, General Administrative Regulation on the Classification of Substances Hazardous to Waters into Hazard Classes" (1999), German Federal Gazette Nr. 98a (1999) Footnote 14" 476, 477)

HCS Classification: Not regulated



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ADDITIONAL UNITED STATES FEDERAL REGULATIONS:

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

U.S. SARA REPORTING REQUIREMENTS: The components of this product are NOT subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA SECTION 302 THRESHOLD PLANNING QUANTITY (TPQ): Not applicable

U.S. SARA SECTION 304 REPORTABLE QUANTITY (TPQ): Not applicable.

U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21): ACUTE: No; CHRONIC: No; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No

U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable

U.S. CLEAN AIR ACT (CA 112r) THRESHOLD QUANTITY (TQ): Not applicable

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CM) 112 accidental release prevention: No products were found.

Clean Air Act (CM) 112 regulated flammable substances: No products were found.

Clean Air Act (CM) 112 regulated toxic substances: No products were found. Not applicable.

U.S. TSCA INVENTORY STATUS: The SX-E™ component is not included in the TSCA Inventory. It must be used by, or directly under the supervision of, a technically qualified individual. The manufacturer should be consulted prior to using this material for other applications. Other requirements may apply.

OTHER U.S. FEDERAL REGULATIONS: Not applicable.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): The components of this product are not on the California Proposition 65 lists.



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ADDITIONAL CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The SX-E™ component is not on the DSL or NDSL Inventories.

OTHER CANADIAN REGULATIONS: Not applicable

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITY SUBSTANCES LISTS:

The components of this product are not on the CEPA Priority Substances Lists.

CANADIAN WHMIS CLASSIFICATION AND SYMBOLS: Not controlled under WHMIS (Canada).

16. OTHER INFORMATION

Relevant R-Classification: 46 (slightly irritant to eyes)

Disclaimer

Copyright 2009/2010 Sunsonix™.

This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Sunsonix™ knowledge the above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. To the best of Sunsonix™ knowledge the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either express or implied are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. This MSDS does not represent any guarantee of the properties of the product. Sunsonix™ shall not be held liable for any damage resulting from handling and/or from contact with the above product.



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Effective Date July 9th, 2009
Created by: Helmuth Treichel
Edited October 8th, 2010
859 Pheland Ct,
Milpitas, CA 95035, USA
www.sunsonix.com
Sunsonix™ Confidential and Proprietary

Acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

VOC: Volatile Organic Compounds (USA, EU)