

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) as amended
Material Name: UltraSoniX™

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and Materials for Containment and Cleaning Up

Keep unnecessary people away, isolate hazard area and deny entry. Scoop spilled material into clean, dedicated equipment. Shovel or sweep up. Product is slippery. Clean floors and contaminated objects with water.

6.4 Reference to other sections

Safe handling: see section 7. Personal protection equipment (PPE): see section 8. Disposal: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not eat, drink or smoke when using this product. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities

None needed according to classification criteria.

Store in original container. Keep from direct sunlight. Do not store at temperatures below 0 °C. Do not store above the following temperature: 35°C (95°F).

Incompatible Materials

None known.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Component Exposure Limits

1,2-Propylene glycol	57-55-6
Ireland:	150 ppm TWA total vapour and particulates ; 470 mg/m3 TWA total vapour and particulates ; 10 mg/m3 TWA particulate
	450 ppm STEL (calculated) total vapour and particulates ; 1410 mg/m3 STEL (calculated) total vapour and particulates ; 30 mg/m3 STEL (calculated) particulate
United Kingdom:	150 ppm TWA total particulates and vapour ; 474 mg/m3 TWA total particulates and vapour ; 10 mg/m3 TWA particulates
	450 ppm STEL (calculated) total particulate and vapour ; 1422 mg/m3 STEL (calculated) total particulate and vapour ; 30 mg/m3 STEL (calculated) particulate
Sodium molybdate	7631-95-0
Austria:	5 mg/m3 TWA [TMW] as Mo inhalable fraction (related to Molybdenum soluble compounds)
	10 mg/m3 STEL [KZW] as Mo inhalable fraction 4 X 15 min (related to Molybdenum soluble compounds)
Belgium:	0.5 mg/m3 TWA as Mo alveolar fraction (related to Molybdenum soluble compounds)
Denmark:	5 mg/m3 TWA as Mo (related to Molybdenum soluble compounds)
Finland:	0.5 mg/m3 TWA as Mo (related to Molybdenum soluble compounds)
France:	5 mg/m3 TWA [VME] as Mo (related to Molybdenum soluble compounds)

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	10 mg/m3 STEL [VLCT] as Mo (related to Molybdenum soluble compounds)
Greece:	5 mg/m3 TWA as Mo (related to Molybdenum soluble compounds)
Ireland:	10 mg/m3 TWA as Mo (related to Molybdenum soluble compounds)
	30 mg/m3 STEL (calculated) as Mo inhalable (related to Molybdenum soluble compounds)
Portugal:	0.5 mg/m3 TWA [VLE-MP] as Mo respirable fraction (related to Molybdenum soluble compounds)
Spain:	0.5 mg/m3 TWA [VLA-ED] (see UNE EN 481:1995 Workplace atmospheres. Definition of the fractions by particle size for aerosol measurement) as Mo respirable fraction (related to Molybdenum soluble compounds)
Sweden:	5 mg/m3 LLV (highly soluble) as Mo total dust ; 5 mg/m3 LLV (sparingly soluble) as Mo respirable dust ; 10 mg/m3 LLV (sparingly soluble) as Mo total dust (related to Molybdenum soluble compounds)
United Kingdom:	5 mg/m3 TWA as Mo (related to Molybdenum soluble compounds)
	10 mg/m3 STEL as Mo (related to Molybdenum soluble compounds)

EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures

There are no biological limit values for any of this product's components.

Derived No Effect Levels (DNELs)

No DNELs available.

Predicted No Effect Concentrations (PNECs)

No PNECs available.

8.2 Exposure Controls

Engineering controls

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Eye/face protection

Wear safety glasses with side shields. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear suitable protective clothing. Wash contaminated clothing before reuse.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a negligible level, an approved respirator must be worn. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Glove Recommendations

Wear suitable gloves.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	light blue green high viscosity gel	Physical State	Not available
Odor	mild	Color	light blue
Odor Threshold	Not available	pH	8

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Melting Point	Not applicable	Boiling Point	102 C
Boiling Point Range	Not available	Freezing point	-15 C
Evaporation Rate	Not available	Flammability (solid, gas)	Not available
Autoignition Temperature	>148.89 °C	Flash Point	>148.89 °C
Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not applicable
Vapor Density (air=1)	1	Specific Gravity (water=1)	Not available
Water Solubility	100 %	Partition coefficient: n-octanol/water	Not available
Viscosity	160000 cps (Brookfield)	Solubility (Other)	Not available
Density	1.1 - 1.4 g/cc	Physical Form	high viscosity , gel
VOC	<1.5 % (calculated)	Molecular Weight	Not available

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazard is expected.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Oxides of carbon

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute and Chronic Toxicity

No data available.

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

1,2-Propylene glycol (57-55-6)

Oral LD50 Rat 20 g/kg

Dermal LD50 Rabbit 20800 mg/kg

Acrylic resin (9003-01-4)

Oral LD50 Rat 2500 mg/kg

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Sodium molybdate (7631-95-0)

Oral LD50 Rat 4000 mg/kg
 Inhalation LC50 Rat >2080 mg/m³ 4 h

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

Irritation/Corrosivity Data

High vapor concentrations may cause upper respiratory tract irritation. May cause eye irritation.

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Germ Cell Mutagenicity

No data available.

Component Carcinogenicity

Acrylic resin	9003-01-4
IARC:	Supplement 7 [1987] ; Monograph 19 [1979] (Group 3 (not classifiable))

Reproductive toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration hazard

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Not expected to be toxic to aquatic/soil organisms.

Component Analysis - Aquatic Toxicity

1,2-Propylene glycol	57-55-6
Fish:	LC50 96 h Oncorhynchus mykiss 51600 mg/L [static] ; LC50 96 h Oncorhynchus mykiss 41 - 47 mL/L [static] ; LC50 96 h Pimephales promelas 51400 mg/L [static] ; LC50 96 h Pimephales promelas 710 mg/L
Algae:	EC50 96 h Pseudokirchneriella subcapitata 19000 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L [Static] EPA
Acrylic resin	9003-01-4
Fish:	LC50 96 h Lepomis macrochirus 580 mg/L

12.2 Persistence and degradability

No information available for the product.

12.3 Bioaccumulative potential

no bioaccumulation expected.

12.4 Mobility in soil

No information available for the product.

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12.5 Results of PBT and vPvB assessment

Other Ecological Information

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Recycle if possible. EWC-code: 08 04 99.

No data specific data available.

Release to the environment or sewage system is prohibited.

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

Component Marine Pollutants (IMDG)

Not regulated as dangerous goods.

		ADR	RID	ICAO	IATA	ADN	IMDG
14.1	UN Number	--	--	--	--	--	--
14.2	UN Proper Shipping Name	--	--	--	--	--	--
14.3	Transport Hazard Class(es)	--	--	--	--	--	--
14.4	Packing Group	--	--	--	--	--	--
14.5	Environmental Hazards	--	--	--	--	--	--
14.6	Special Precautions For User	--	--	--	--	--	--
14.7	Transport in Bulk According to Annex II or MARPOL 73/78 and the IBC Code	--	--	--	--	--	--
14.8	Additional information	--	--	Not regulated as a hazardous material.	Not regulated as a hazardous material.	--	Not regulated as a hazardous material.

International Bulk Chemical Code

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

1,2-Propylene glycol	57-55-6
IBC Code:	Category Z
Acrylic resin	9003-01-4
IBC Code:	Category Z (solution, <=40%)

SECTION 15: Regulatory information

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

EU - REACH (1907/2006) - Annex XIV List of Substances Subject to Authorization

No components of this material are listed.

EU - REACH (1907/2006) - Article 59(1) Candidate List of Substances Subject to Authorization

No components of this material are listed.

EU - REACH (1907/2006) - Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles

No components of this material are listed.

Germany Regulations

Germany Water Classification - Product

hazard class 1 - low hazard to waters

* Self-classification

Germany Water Classification - Component

1,2-Propylene glycol (57-55-6)

ID Number 280 , hazard class 1 - low hazard to waters

Acrylic resin (9003-01-4)

ID Number 1832 , hazard class 1 - low hazard to waters

ID Number 1832 , hazard class 1 - low hazard to waters

Sodium molybdate (7631-95-0)

ID Number 638 , hazard class 1 - low hazard to waters

Denmark Regulations

No components of this material are listed.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the substance/mixture.

Component Analysis - Inventory

1,2-Propylene glycol (57-55-6)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

Acrylic resin (9003-01-4)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

Lauramino propionic acid (84812-94-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	No	No	No	No	Yes	No	No	Yes

Sodium molybdate (7631-95-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

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Water (7732-18-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes

SECTION 16: Other information

16.1 Indication of changes

New SDS : 06/22/2016

16.2 Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; JP - Japan; Kow - Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory; KECL - Korea Existing Chemicals List; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSP - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

16.3 Key literature references and sources for data

Available upon request.

16.4 Methods Used for Classification of Mixture According to Regulation (EC) No 1272/2008

Available upon request.

16.5 Relevant H- and EUH-phrases (Number and full text)

None needed according to classification criteria

16.6 Training advice

Read the Safety Data Sheet before handling product.

16.7 Further Information

Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.