

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name or designation of the mixture	VersaSonic®
Registration number	-
Synonyms	None.
Product code	VS-02, VS-02-10, VS-04, VS-04-10, VS-25-MV, VS-25-HV, VS-1-MV, VS-1-HV, VS-5-HV-PAIL, VS-5-MV-PAIL, VS-1-F, VS-5-F, VS-15-F, VS-55-F
Issue date	21-June-2017
Version number	01
Revision date	-
Supersedes date	-

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Ultrasonic Couplant for Industrial NDT Inspection.
Uses advised against	None known.

### 1.3. Details of the supplier of the safety data sheet

Manufacturer	Echo Ultrasonics® LLC
Address	774 Marine Drive Bellingham, WA 98225
Telephone	360-671-9121
Contact person	Gene Larson
Emergency telephone	360-671-9121
Email	sales@echoultrasonics.com

Importer	Diagnostic Sonar Ltd
Address	Baird Rd Livingston EH54 7BX, UK
Telephone	+44 1506 411877

1.4. Emergency telephone number	+813-248-0585
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
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### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.

#### Precautionary statements

Prevention	Observe good industrial hygiene practices.
Response	Not applicable.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information	None.
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2.3. Other hazards	None known.
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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Oilseed Plant Based Ester	>90	9083-41-4 232-315-6	-	-	
<b>Classification:</b>	-				

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## SECTION 4: First aid measures

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 4.1. Description of first aid measures

**Inhalation** In case of inhalation of fumes from heated product: Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** Hold eyelids apart and flush eyes with plenty of water for 15 minutes. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

**4.2. Most important symptoms and effects, both acute and delayed** Direct contact with eyes may cause temporary irritation. Exposure to hot material may cause thermal burns.

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

## SECTION 5: Firefighting measures

**General fire hazards** Material will burn in a fire.

### 5.1. Extinguishing media

**Suitable extinguishing media** Water fog. Alcohol-resistant foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire. Caution should be exercised when using water or foam as frothing may occur, especially if directed onto containers of hot or burning material.

**5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed. Carbon oxides (CO, CO<sub>2</sub>), smoke and irritating vapors as products of incomplete combustion.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special fire fighting procedures** Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Keep unnecessary personnel away. Be aware of potential for surfaces to become slippery. Avoid contact with eyes.

**For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions** No special environmental precautions required.

**6.3. Methods and material for containment and cleaning up** Caution: Contaminated surfaces may be slippery. Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. DO NOT use combustible materials such as sawdust. Clean contaminated area with oil-removing material. For waste disposal, see section 13 of the SDS.

**6.4. Reference to other sections** For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Avoid contact with eyes and prolonged skin contact. When using do not eat or drink. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed original container in a dry, cool and well-ventilated place. Recommended storage temperature: above -9 °C (15°F). Keep out of the reach of children. Use care in handling/storage. Store away from incompatible materials (see section 10 of the SDS).

**7.3. Specific end use(s)**

Ultrasonic Couplant for Industrial NDT Inspection.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value	Form
Oilseed Plant Based Ester (CAS 9083-41-4)	STEL	6 mg/m3	Fume.
	TWA	2 mg/m3	Fume.
Silicon dioxide (CAS 99439-28-8)	TWA	6 mg/m3	Inhalable dust.
		2.4 mg/m3	Respirable dust.

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures**

Follow standard monitoring procedures.

**Derived no effect levels (DNELs)**

Not available.

**Predicted no effect concentrations (PNECs)**

Not available.

**Exposure guidelines**

Occupational Exposure Limits are not relevant to the current physical form of the product.

**8.2. Exposure controls**

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

**General information**

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection**

**- Hand protection**

Not normally needed. For prolonged or repeated skin contact use suitable protective gloves.

**- Other**

Wear suitable protective clothing, when testing at high temperatures.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls**

Environmental manager must be informed of all major releases.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance**

**Physical state**

Solid.

**Form**

Grease.

**Colour**

Pale yellow.

**Odour**

Mild characteristic odor.

**Odour threshold**

Not available.

**pH**

Not available.

**Melting point/freezing point**

-26 °C (-14.8 °F)

**Initial boiling point and boiling range**

> 310 °C (> 590 °F)

**Flash point**

226.7 °C (440.0 °F)

**Evaporation rate**

< 1 % at 100 °C

**Flammability (solid, gas)**

Non-flammable by WHMIS/OSHA/NOM-018-STPS 2000 criteria.

## Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Vapour pressure** < 0.001 torr

**Vapor pressure temp.** 25 °C (77 °F)

**Vapour density** > 1 (Air= 1)

**Relative density** ~0.95 (H2O=1)

**Solubility(ies)** Insoluble in water.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** 420 °C (788 °F) (Laboratory test)

**Decomposition temperature** Not available.

**Viscosity** 29.25 Pa·s at a shear rate 2.25 seconds (TA Rheometer)  
80.54 Pa·s at a shear rate 2.9 seconds (TA Rheometer)  
750 cSt Fluid

**Explosive properties** Not explosive.

**Oxidising properties** Not oxidising.

**9.2. Other information** No relevant additional information available.

## SECTION 10: Stability and reactivity

**10.1. Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability** Material is stable under normal conditions.

**10.3. Possibility of hazardous reactions** No dangerous reaction known under conditions of normal use.

**10.4. Conditions to avoid** Contact with incompatible materials. Can react vigorously with oxidizing materials.

**10.5. Incompatible materials** Strong oxidising agents. Acids.

**10.6. Hazardous decomposition products** Fumes, smoke, carbon monoxide and other products of incomplete combustion.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

**Inhalation** No adverse effects due to inhalation are expected.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

**Symptoms** Direct contact with eyes may cause temporary irritation. Hot material will produce thermal burns.

### 11.1. Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

**Skin corrosion/irritation** No adverse effects due to skin contact.

#### Corrosivity

Oilseed Plant Based Ester (CAS 9083-41-4)

Method: Patch Test  
Result: Not irritating  
Species: Human  
Organ: Skin  
Test Duration: 48 hours

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

**Respiratory sensitisation** Due to lack of data the classification is not possible.

**Skin sensitisation** Due to lack of data the classification is not possible.

**Germ cell mutagenicity** Due to lack of data the classification is not possible.

**Carcinogenicity** Due to lack of data the classification is not possible.

**Reproductive toxicity** Due to lack of data the classification is not possible.

**Specific target organ toxicity - single exposure** Due to lack of data the classification is not possible.

<b>Specific target organ toxicity - repeated exposure</b>	Due to lack of data the classification is not possible.
<b>Aspiration hazard</b>	Due to the physical form of the product it is not an aspiration hazard.
<b>Mixture versus substance information</b>	No information available.
<b>Other information</b>	No adverse effects due to inhalation are expected.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	The product is not classified as environmentally hazardous.
<b>12.2. Persistence and degradability</b>	Biodegradable.
<b>12.3. Bioaccumulative potential</b>	The product is not expected to bioaccumulate.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	The product is insoluble in water and has a low mobility in the environment.
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.
<b>12.6. Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

<b>13.1. Waste treatment methods</b>	
<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

<b>ADR</b>	14.1. - 14.6.: Not regulated as dangerous goods.
<b>RID</b>	14.1. - 14.6.: Not regulated as dangerous goods.
<b>ADN</b>	14.1. - 14.6.: Not regulated as dangerous goods.
<b>IATA</b>	14.1. - 14.6.: Not regulated as dangerous goods.
<b>IMDG</b>	14.1. - 14.6.: Not regulated as dangerous goods.
<b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.

## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**  
Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### **Authorisations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended**

Not listed.

#### **Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

#### **Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Not listed.

#### **Other regulations**

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### **National regulations**

Follow national regulation for work with chemical agents.

#### **15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

#### **List of abbreviations**

DNEL: Derived No Effect Level.  
PNEC: Predicted No Effect Concentration.  
PBT: Persistent, bioaccumulative, toxic.  
vPvB: very Persistent, very Bioaccumulative.

#### **References**

In-house data

#### **Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### **Full text of any H-statements not written out in full under Sections 2 to 15**

None.

#### **Training information**

Follow training instructions when handling this material.

#### **Disclaimer**

Echo Ultrasonics® LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.