

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

074789012

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

074789020 074789038 074789046 074789103 074789111

**Matech, Inc.****NFPA**

Vest-All Liquid (Clear) 0  
1    0

**SECTION 1 : Chemical Product and Company Identification**

**MSDS Name:** Vest-All Liquid (Clear)

For information in North America, call: (818) 367-2472

**Manufacturer MSDS Revision Date:**

01-01-12

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration (Non-Mandatory Form)

Form Approved

OMB No. 1218-0072

Signature of Preparer (optional): WINSTON TSAI



TOP

**SECTION 2 : Hazardous Ingredients/Identity Information**

Chemical Name			
AMORPHOUS SILICA			

OSHA PEL TWA: 6 mg/m<sup>3</sup>

ACGIH TLV TWA: 10 mg/m<sup>3</sup>

Chemical Name			
TITRATABLE ALKALI			

OSHA PEL TWA: NONE ESTABLISHED

ACGIH TLV TWA: NONE ESTABLISHED



TOP

**SECTION 3 : Physical And Chemical Characteristics**

**Physical State/Appearance:**

CLEAR TO OPALESCENT LIQUID

**Odor:**

ODORLESS

**Vapor Pressure:**

48 mmHg: 38 deg C/100 deg F

**Vapor Density:**

(AIR = 1): VAPOR IS WATER

**Boiling Point:**

760 mmHg: 212 deg F/100 deg C

**Melting Point:**

0 deg C/32 deg F

**Solubility:**

In Water: 100%

**Specific Gravity:**

(H<sub>2</sub>O = 1): 1.21-1.3

**Evaporation Point:**

(Butyl Acetate = 1): < 1

**FlashPoint:**

WILL NOT BURN

**Upper Flammable Explosive Limit:**

Not Applicable

**Lower Flammable Explosive Limit:**

Not Applicable



**SECTION 4 : Fire And Explosion Hazards**

**Fire:**

Flammable Limits: Not Applicable

**Flash Point:**

WILL NOT BURN

**Flash Point Method:**

WILL NOT BURN

Upper Flammable or Explosive Limit: Not Applicable

Lower Flammable or Explosive Limit: Not Applicable

**Extinguishing Media:**

Not Applicable

**Fire Fighting Instructions:**

NONE

**Unusual Fire Hazards:**

NONE



TOP

**SECTION 5 : Health Hazards****Applies to All Ingredients:****Potential Health Effects:****Eye Contact:**

May cause irritation with discomfort, tearing or blurring of vision.

**Skin Contact:**

May cause irritation with discomfort or rash.

**Inhalation:**

May cause temporary lung irritation with cough, discomfort, and difficulty breathing. Individual with pre-existing lung diseases may have increased susceptibility to the toxicity of excessive exposure.



TOP

**SECTION 6 : Emergency And First Aid Procedures****Eye Contact:**

Flush with plenty of water for at least 15 minutes.

**Inhalation:**

Remove to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult, give oxygen and call a physician.

**Ingestion:**

Induce vomiting immediately as directed by a medical person and call a physician. Never give anything by mouth to an unconscious person.



TOP

**SECTION 7 : Reactivity Data****Chemical Stability:**

Stable

**Incompatibilities with Other Materials:**

(Materials to Avoid): NO KNOWN HAZARDOUS INCOMPATIBILITY

**Hazardous Polymerization:**

Will Not Occur

**Hazardous Decomposition Products:**

NO KNOWN HAZARDOUS DECOMPOSITION

**SECTION 8 : Precautions For Safe Handling****Spill Cleanup Measures:**

FLUSH WITH WATER TO A CHEMICAL SEWER

**Other Precautions:**

NONE

**Storage:**

KEEP CONTAINERS TIGHTLY CLOSED. STORE AT TEMPERATURES ABOVE 35 Deg C TO AVOID IRREVERSIBLE PRECIPITATION OF SILICA.

**Hygiene Practices:**

GENERAL HYGIENE

**Waste Disposal:**

COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS

**SECTION 9 : Control Measures****Local Exhaust:**

Yes

**Hand Protection Description:**

Protective Gloves: RUBBER

**Eye/Face Protection:**

GLASSES/GOGGLES FOR SPLASH PROTECTION

**Respiratory Protection:**

(Specify Type): GOOD VENTILATION

**Other Protective:**

EYE WASH STATION

Work/Hygienic Practices: GENERAL HYGIENE

**SECTION 10 : Other Information****Applies to all ingredients:**

OSHA 29 CFR 1200:

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

MSDS Revision Date:

01-01-12

MSDS Author:

Signature of Preparer (optional): WINSTON TSAI

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## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 01.07.2016

**Trade Name:** Vest-All Liquid

### 1 Identification of the substance/mixture and of the supplier

#### 1.1 Product identifier

**Trade Name:** Vest-All Liquid

**Synonyms:**

**Product number:** Vest-All Liquid

**1.2 Application of the substance / the mixture :** Dental Materials

#### 1.3 Details of the supplier of the Safety Data Sheet

**Manufacturer**

MATECH, INC.

13000 SAN FERNANDO ROAD

SYLMAR, CA 91342

(818) 367-2472

**Emergency telephone number:**

**Matech, Inc.**

818-367-2472

### 2 Hazards identification

#### 2.1 Classification of the substance or mixture:

In compliance with EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments.

The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

**Hazard-determining components of labeling:** None.

#### 2.2 Label elements:

None.

**Hazard pictograms:** None

**Signal word:** None

**Hazard statements:** None

**Precautionary statements:** None

**Additional information:** None.

**Hazard description**

**Hazards Not Otherwise Classified (HNOC):** None

**Information concerning particular hazards for humans and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

**Classification system:**

The classification is according to EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

### 3 Composition/information on ingredients

**3.1 Chemical characterization :** None

**3.2 Description :** None

## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 01.07.2016

**Trade Name:** Vest-All Liquid

### 3.3 Hazardous components (percentages by weight)

Identification	Chemical Name	Classification	Wt. %
<b>CAS number:</b> 7732-18-5	Water		50-70
<b>CAS number:</b> 7631-86-9	Amorphous silicon dioxide, chemically prepared		30-50

### 3.4 Additional Information : None.

## 4 First aid measures

### 4.1 Description of first aid measures

**General information:** None.

**After inhalation:**

Maintain an unobstructed airway.  
Loosen clothing as necessary and position individual in a comfortable position.

**After skin contact:**

Rinse affected area with soap and water.  
If symptoms develop or persist, seek medical attention.

**After eye contact:**

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.  
If symptoms develop or persist, seek medical attention.

**After swallowing:**

Seek medical attention if irritation, discomfort, or vomiting persists.  
Rinse mouth thoroughly.

### 4.2 Most important symptoms and effects, both acute and delayed

None

### 4.3 Indication of any immediate medical attention and special treatment needed:

No additional information.

## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**For safety reasons unsuitable extinguishing agents :** None

### 5.2 Special hazards arising from the substance or mixture :

Thermal decomposition can lead to release of irritating gases and vapors.

### 5.3 Advice for firefighters

**Protective equipment:**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  
Refer to Section 8.

### 5.4 Additional information :

Avoid contact with skin, eyes and clothing.



## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 01.07.2016

**Trade Name:** Vest-All Liquid

Avoid inhaling gases, fumes, dust, mist and vapor.

### 6 Accidental release measures

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

Ensure air handling systems are operational.  
Ensure adequate ventilation.

#### 6.2 Environmental precautions :

Prevent from reaching drains, sewer or waterway.  
Should not be released into the environment.

#### 6.3 Methods and material for containment and cleaning up :

Always obey local regulations.  
Absorb liquid spill with vermiculite or other inert material.  
Wear protective eye wear, gloves and clothing.

#### 6.4 Reference to other sections : None

### 7 Handling and storage

#### 7.1 Precautions for safe handling :

Do not eat, drink, smoke or use personal products when handling chemical substances.  
Do not taste or swallow.

#### 7.2 Conditions for safe storage, including any incompatibilities :

Keep container tightly sealed.  
Store in a cool, well-ventilated area.  
Store away from incompatible materials.

#### 7.3 Specific end use(s):

No additional information.

### 8 Exposure controls/personal protection



#### 8.1 Control parameters :

7631-86-9, Amorphous silicon dioxide, chemically prepared, OSHA 80 mg/m<sup>3</sup> TWA.  
7631-86-9, Amorphous silicon dioxide, chemically prepared, NIOSH 6 mg/m<sup>3</sup> TWA.

#### 8.2 Exposure controls

##### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

##### Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been

## Safety Data Sheet

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**Effective date:** 01.07.2016

**Trade Name:** Vest-All Liquid

established), an approved respirator must be worn.

### Protection of skin:

Wear appropriate clothing to prevent any possibility of skin contact.  
Select glove material impermeable and resistant to the substance.

### Eye protection:

Safety glasses or goggles are appropriate eye protection.

### General hygienic measures:

Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and at the end of work.

## 9 Physical and chemical properties

<b>Appearance (physical state, color):</b>	Clear to opalescent liquid E	<b>Explosion limit lower:</b> <b>Explosion limit upper:</b>	Not determined or not available. Not determined or not available.
<b>Odor:</b>	Odorless	<b>Vapor pressure at 20°C:</b>	Not determined or not available.
<b>Odor threshold:</b>	Not determined or not available.	<b>Vapor density:</b>	Not determined or not available.
<b>pH-value:</b>	Not determined or not available.	<b>Relative density:</b>	1.21-1.3 g/cm <sup>3</sup>
<b>Melting/Freezing point:</b>	32°F / 0 °C	<b>Solubilities:</b>	100%
<b>Boiling point/Boiling range:</b>	212 °F / 100 °C	<b>Partition coefficient (n-octanol/water):</b>	Not determined or not available.
<b>Flash point (closed cup):</b>	Not determined or not available.	<b>Auto/Self-ignition temperature:</b>	Not determined or not available.
<b>Evaporation rate:</b>	<1	<b>Decomposition temperature:</b>	Not determined or not available.
<b>Flammability (solid, gaseous):</b>	Not determined or not available.	<b>Viscosity:</b>	a. Kinematic: Not determined or not available. b. Dynamic: Not determined or not available.
<b>Density at 20°C:</b>	Not determined or not available.		

## 10 Stability and reactivity

### 10.1 Reactivity :

Nonreactive under normal conditions.

### 10.2 Chemical stability :

Stable under normal conditions of use and storage.

### 10.3 Possibility hazardous reactions :

None identified.

### 10.4 Conditions to avoid :

Incompatible materials.

## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 01.07.2016

**Trade Name:** Vest-All Liquid

### 10.5 Incompatible materials :

Strong acids, bases, and oxidizing agents.

### 10.6 Hazardous decomposition products :

Thermal decomposition can lead to release of irritating gases and vapors.

## 11 Toxicological information

### 11.1 Information on toxicological effects :

#### Acute Toxicity:

##### Oral:

Amorphous silicon dioxide, chemically prepared: LD50 - 3,160 mg/kg (Rat) Sigma-Aldrich.

**Chronic Toxicity:** No additional information.

**Skin corrosion/irritation:** No additional information.

**Serious eye damage/irritation:** No additional information.

**Respiratory or skin sensitization:** No additional information.

**Carcinogenicity:** No additional information.

**IARC (International Agency for Research on Cancer):** None of the ingredients are listed.

**NTP (National Toxicology Program):** None of the ingredients are listed.

**Germ cell mutagenicity:** No additional information.

**Reproductive toxicity:** No additional information.

**STOT-single and repeated exposure:** No additional information.

**Additional toxicological information:** No additional information.

## 12 Ecological information

**12.1 Toxicity:** No additional information.

**12.2 Persistence and degradability:** No additional information.

**12.3 Bioaccumulative potential:** No additional information.

**12.4 Mobility in soil:** No additional information.

**General notes:** No additional information.

### 12.5 Results of PBT and vPvB assessment:

**PBT:** No additional information.

**vPvB:** No additional information.

**12.6 Other adverse effects:** No additional information.

## 13 Disposal considerations

### 13.1 Waste treatment methods (consult local, regional and national authorities for proper disposal)

#### Relevant Information:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11).

**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 01.07.2016

**Trade Name:** Vest-All Liquid**14 Transport information**

**14.1 UN Number:** Not regulated  
ADR, ADN, DOT, IMDG, IATA

**14.2 UN Proper shipping name:** Not regulated.  
ADR, ADN, DOT, IMDG, IATA

**14.3 Transport hazard classes:**  
ADR, ADN, DOT, IMDG, IATA

<b>Class:</b>	None
<b>Label:</b>	None
<b>LTD. QTY:</b>	None

**US DOT**

**Limited Quantity Exception:** None

**Bulk:**

**RQ (if applicable):** None  
**Proper shipping Name:** Not regulated.  
**Hazard Class:** None  
**Packing Group:** Not regulated.  
**Marine Pollutant (if applicable):** No  
**Comments:** None

**Non Bulk:**

**RQ (if applicable):** None  
**Proper shipping Name:** Not regulated.  
**Hazard Class:** None  
**Packing Group:** Not regulated.  
**Marine Pollutant (if applicable):** No  
**Comments:** None

**14.4 Packing group:** Not regulated.  
ADR, ADN, DOT, IMDG, IATA

**14.5 Environmental hazards :** None

**14.6 Special precautions for user:** None

<b>Danger code (Kemler):</b>	None
<b>EMS number:</b>	None
<b>Segregation groups:</b>	None

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

**14.8 Transport/Additional information:**

<b>Transport category:</b>	None
<b>Tunnel restriction code:</b>	None
<b>UN "Model Regulation":</b>	Not regulated, Not regulated

**15 Regulatory information**

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

SARA

## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 01.07.2016

**Trade Name:** Vest-All Liquid

**Section 313 (specific toxic chemical listings):** None of the ingredients are listed.  
**Section 302 (extremely hazardous substances):** None of the ingredients are listed.

**CERCLA (Comprehensive Environmental Response, Clean up and Liability Act) Reportable**

**Spill Quantity:** None of the ingredients are listed.

**TSCA (Toxic Substances Control Act):**

**Inventory:**

7631-86-9 Silica.

**Rules and Orders:** Not applicable.

**Proposition 65 (California):**

**Chemicals known to cause cancer:** None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:** None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:** None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:** None of the ingredients are listed.

**Canadian**

**Canadian Domestic Substances List (DSL):**

7631-86-9 Silica.

### EU

**REACH Article 57 (SVHC):** None of the ingredients are listed.

**Germany MAK:** Not classified.

### Asia Pacific

**Australia**

**Australian Inventory of Chemical Substances (AICS):**

7631-86-9 Silica.

**China**

**Inventory of Existing Chemical Substances in China (IECSC):**

7631-86-9 Silica.

**Japan**

**Inventory of Existing and New Chemical Substances (ENCS):**

7631-86-9 Silica.

**Korea**

**Existing Chemicals List (ECL):**

7631-86-9 Silica.

**New Zealand**

**New Zealand Inventory of Chemicals (NZOIC):**

7631-86-9 Silica.

**Philippines**

**Philippine Inventory of Chemicals and Chemical Substances (PICCS):**

7631-86-9 Silica.

## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 01.07.2016

**Trade Name:** Vest-All Liquid

**Taiwan**

**Taiwan Chemical Substance Inventory (TSCI):**  
7631-86-9 Silica.

### 16 Other information

#### Abbreviations and Acronyms:

CAS Chemical Abstracts Service (division of the American Chemical Society).  
 TLV Threshold Limit Value.  
 TDG Transportation of Dangerous Goods.  
 TWA Time-Weighted Average.  
 VOC Volatile Organic Compound.  
 WEEL Workplace Environmental Exposure Limit (see AIHA).  
 vPvBs Very Persistent and Very Bioaccumulative substances.  
 STEL Short-Term Exposure Limit.  
 SNUR Significant New Use Rule (see TSCA).  
 NFPA National Fire Protection Association (USA).  
 N/A Not Applicable.  
 ACGIH American Conference of Governmental Industrial Hygienists.  
 PBTs Persistent, Bioaccumulative and Toxic substances.  
 PEL Permissible Exposure Limit.  
 SARA Superfund Amendments and Reauthorization Act (USA).  
 RCRA Resource Conservation and Recovery Act (USA).  
 DOT US Department of Transportation.  
 HMIS Hazardous Materials Identification System (USA).  
 LC50 Median Lethal Concentration.  
 IATA International Air Transportation Association.  
 LD50 Median Lethal Dose.  
 n.o.s. Not Otherwise Specified.  
 TSCA Toxic Substances Control Act (USA).

#### Summary of Phrases

**Hazard statements:** None

**Precautionary statements:** None

#### Manufacturer Statement:

It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. The information contained herein is, to the best of our knowledge and belief, accurate. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The responsibility to provide a safe workplace remains with the user.

**NFPA:**

**HMIS:** 1-0-0