

# SAFETY DATA SHEET

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

### 1.1 Product identifiers

Product name : Gradient Visualization Solution

Product Number : Cat. No. PQAGVS01  
Brand : MicroSolv™ Technology

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

Identified uses : Laboratory chemicals, Synthesis of substances

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

Company : MicroSolv Technology  
9158 Industrial Blvd  
Leland NC 28451  
UNITED STATES

Telephone : +1 732 380-8900  
Fax : +1 910 769-9435

### 1.4 Emergency telephone number

Emergency Phone # : 1-800-222-1222  
Poisoning or chemical exposure

## SECTION 2: Hazards identification

2.1 Hazards not otherwise classified (HNOC) or not covered by GHS - none listed

## SECTION 3: Composition/information on ingredients 3.1 Hazardous Components (Specific Chemical Identity: Common Name(s))

3.2 Mixtures Name	Product identifier	OHS PEL   ACGIH   Other Limits   %		
		TLV	Recommended	Optional
Water	(CAS-No.) 7732-18-5	None listed		
Uracil	(CAS-No.) 66-22-8			
Acetonitrile	(CAS-No.) 75-05-8			
Acetic Acid	(CAS-No.) 64-19-7			

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**If inhaled**

Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Irritation, Nausea, Headache, Shortness of breath.;

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

Obtain medical assistance.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

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

Not flammable.

### 5.3 Advice for firefighters

Not flammable.

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## SECTION 6: Accidental release measures

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

Gloves. Safety glasses.

### 6.2 Environmental precautions Prevent entry to sewers and public waters.

**Steps to be Taken in Case of Material is Released or Spilled:** Wear suitable protective clothing. Ventilate the area of spill. Wipe up with suitable adsorbent. Collect material in a safe manner and hold for waste disposal. Then wash spill site with water.

### 6.3 Methods and materials for containment and cleaning up Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

**Waste Disposal Method:** Observe all Federal, State and local environmental regulations.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling: Wear protective equipment. Absorb spillage to prevent material damage

due to corrosiveness to metal. Avoid contact with eyes, skin, and clothing. Wash hands after handling. Do not mix with w/Sulfuric Acid, Strong Oxidizing agents. Follow good hygiene procedures when handling chemical materials. Use only in well ventilated areas.

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

Keep only in the original container in a cool, well ventilated place away from incompatible materials. Keep container closed when not in use.

Incompatible products : Sulfuric Acid, Strong Oxidizing agents.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Route of Entry: Inhalation?Yes Skin?Yes Ingestion?Yes  
Health Hazards (Acute and Chronic): Skin, Eye, Mucous membrane irritant.  
Carcinogenicity: NTP?No IARC Monographs? No OSHA Regulated? No  
Signs and Symptoms of Exposure: N/A  
Medical Conditions Generally Aggravated by Exposure:N/A  
Emergency and First Aid Procedures:Contact - Flush with water Ingestion - Seek medical Advice.

### 8.2 Exposure controls

#### Appropriate engineering controls

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

#### Personal protective equipment

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The glove material has to be impermeable and resistant to the product/substance/the preparation being handled/used.

Eye protection: Safety glasses with wide shields or goggles.

##### Respiratory protection

NIOSH approved dust/mist respirator. Self contained breathing apparatus for fires and spills.

##### Control of environmental exposure

Prevent product from entering drains.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |               |                                    |
|---------------|------------------------------------|
| a) Appearance | Form: liquid<br>Colour: colourless |
| b) Odour      | Odorless                           |

c) Odour Threshold	No data available
d) pH	Alkaline
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	Not Determined
n) Water solubility	completely miscible
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

## 9.2 Other safety information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

(Materials to Avoid): Mixture w/Sulfuric Acid, Strong Oxidizing agents.

## 10.6 Hazardous decomposition products

None.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity** :Not Classified

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation** No data available

**Respiratory or skin sensitization** No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity** :Not classified

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: ZC0110000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

## **12.2 Persistence and degradability**

No data available

## **12.3 Bioaccumulative potential**

No data available

## **12.4 Mobility in soil**

No data available

## **12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## **12.6 Other adverse effects**

No ecological problems are to be expected when the product is handled and used with due care and attention.

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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product**

Avoid release to the environment.

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## **SECTION 14: Transport information**

### **DOT (US)**

Not dangerous goods

### **IMDG**

Not dangerous goods

### **IATA**

Not dangerous goods

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## **SECTION 15: Regulatory information**

### **SARA 311/312 (Specific toxic chemical listings)**

None of the ingredients listed

### **SARA 313 Components**

None of the ingredients listed

### **RCRA Hazards**

None of the ingredients listed

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

All ingredients are listed.

### **CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)**

### **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## **SECTION 16: Other information**

### **Further information**

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. It does not represent any guarantee of the properties of the product. MicroSolv™ Technology and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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