

Issue Date August 2013

Revision Date May 2014

Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Good Vibrations™

Other Means of Identification

SDS # GVUS/SDS/I02

Product Code

GVUS

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Ultrasonic Instrument Cleaner

Details of the Supplier of the Safety Data Sheet

Supplier Address Certol International, LLC.
6120 East 58th Avenue
Commerce City, Colorado 80022
www.Certol.com

Emergency Telephone Number

Company Phone Number(s)

Phone: 303-799-9401
Toll-Free: 1-800-843-3343
Fax: 303-799-9408

24 Hour Emergency Telephone

INFOTRAC: 1-800-535-5053 (North America)
INFOTRAC: 1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity - Inhalation (Dusts / Mists)	Category 4
Causes Skin Irritation	Category 2
Serious Eye Damage / Eye Irritation	Category 1

Signal Word

Danger.

Hazard Statements

Harmful if swallowed.
Short-term eye contact will cause eye irritation.
Long-term eye contact may cause irreversible damage.

Appearance

Green Clear Liquid.

Physical State

Liquid.

Odor

Mint.



Precautionary Statements-Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.
Use only in a well-ventilated area.
Wear protective gloves.
Do not breathe dust/fume/gas/mist/vapors/spray.

Precautionary Statements-Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Control Center or doctor/physician.

IF SWALLOWED: Immediately call a Poison Control Center or doctor/physician.
Rinse mouth. Do not induce vomiting.

IF EXPOSED: Call a Poison Control Center or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Control Center or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF SKIN IRRITATION OR RASH OCCUR: Get medical advice/attention. Call a Poison Control Center or doctor/physician if you feel unwell.

2. HAZARDS IDENTIFICATION (continued)

Precautionary Statements - Storage

Store in a closed container, in a cool, dry well-ventilated place away from incompatible materials.

Keep out of the reach of children and pets.

Precautionary Statements - Disposal

Dispose according to all local, state and federal regulations.

Other Information

Toxic to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Morpholine	110-91-8	*
Polyethylene Glycol Nonylphenyl Ether	9016-45-9	*

*The exact percentage is a trade secret.

4. FIRST AID MEASURES

First Aid Measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician or Poison Control Center immediately.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call physician immediately.
Ingestion	Rinse mouth. Do not induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Call a physician or Poison Control Center immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Call a physician if you feel unwell.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms	Causes skin and eye irritation. Inhalation of fumes or mist can cause irritation to the upper respiratory tract. Ingestion may cause irritation of the mouth, throat or stomach.
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Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water, CO₂, dry chemical or foam for extinction.

Unsuitable Extinguishing Media

Not Determined.

Specific Hazards Arising from the Chemical

Not Determined.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Use personal protective equipment as required.
The wet, contaminated surface may be slippery.

For Emergency Responders

Restrict access to spill area. Ventilate the area.

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas.
See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Absorb with inert material. Shovel or sweep spills. Flush remainder with plenty of water.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protection recommended in Section 8.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only in well-ventilated areas.
Do not breathe dust/fumes/gas/mist/vapors/spray.

Keep out of the reach of children and pets.

7. HANDLING AND STORAGE (continued)

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Store in a closed container, in a cool, dry well-ventilated place away from incompatible materials.

Keep out of the reach of children and pets.

Incompatible Materials

Strong inorganic acids. Bleaching agents. Nitro compounds. Oxidizers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Morpholine 110-91-8	TWA: 20 ppm	TWA: 20 ppm TWA: 70mg/m ³ TWA: 20 ppm (Vacated) TWA: 70 mg/m ³ (Vacated) STEL: 30 ppm (Vacated) STEL: 105 mg/m ³ (Vacated)	IDLH: 1400 ppm TWA: 20 ppm TWA: 70mg/m ³ STEL: 30 ppm STEL: 105 mg/m ³

Appropriate Engineering Controls

Engineering Controls

Apply technical measures to comply with the occupational exposure limits.
Eyewash stations.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection

Wear goggles and/or a face protection shield.

Skin and Body Protection

Chemical resistant, impermeable gloves.
Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection

Under normal conditions a respirator is not normally required.
A mask or respirator may be used if vapor concentration is high.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid.
Appearance	Green Clear Liquid.
Color	Green.
Odor	Mint.

<u>Property</u>	<u>Values</u>	<u>Remarks * Method</u>
pH	8.5 - 9.5	68°F (20°C)
Melting Point / Freezing Point	< 32°F / < 0°C	
Boiling Point / Boiling Range	212°F / 100°C	(Approximate)
Flash Point	Not Determined.	
Evaporation Rate	< 1	(Butyl acetate = 1) (Approximate)
Flammability (Solid/Gas)	N/A-Liquid.	
Flammability Limits In Air	Not Determined.	
Vapor Pressure	Not Determined.	
Vapor Density	> 1	(Air = 1) (Approximate)
Specific Gravity	1.04 g/cc	68°F (20°C) (Water = 1)
Water Solubility	Completely Soluble.	
Partition Coefficient	See Section 12.	
Autoignition Temperature	Not Determined.	
Decomposition Temperature	Not Determined.	
Kinematic Viscosity	Not Determined.	
Dynamic Viscosity	Not Determined.	
Explosive Properties	Not Determined.	
Oxidizing Properties	Not Determined.	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization will not occur.

Conditions to Avoid

None under normal processing.

Incompatible Materials

Strong inorganic acids. Bleaching agents. Nitro compounds. Oxidizers.

Hazardous Decomposition Products

None known.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

- Inhalation** May cause irritation, coughing, nausea and headache.
- Eye Contact** Short term contact will cause irritation. Prolonged contact may cause irreversible damage.
- Skin Contact** Frequent or prolonged contact may cause irritation.
- Ingestion** Do not taste or swallow.

Component Information

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Morpholine 110-91-8	1050 mg/kg (Rat)	310 mg/kg (Rabbit)	N/A
Polyethylene Glycol Nonylphenyl Ether 9016-45-9	1310 mg/kg (Rat)	2000 mg/kg (Rabbit)	N/A

Information on Physical, Chemical and Toxicological Effects

- Symptoms** Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

- Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Morpholine 110-91-8	A4	Group 3	N/A	N/A

IARC (International Agency for Research on Cancer)

Group 3 - Not Carcinogenic to Humans.

ACGIH (The American Conference of Governmental Industrial Hygienists)

A4 - Not Classifiable as a Human Carcinogen.

STOT - Single Exposure

Not Determined.

STOT - Repeated Exposure

Not Determined.

Numerical Measures of Toxicity

Not Determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic organisms.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Morpholine 110-91-8	Known Toxin	Known Toxin	Known Toxin	Known Toxin
Polyethylene Glycol Nonylphenyl Ether 9016-45-9	Known Toxin	Known Toxin	No Information	Known Toxin

Persistence and Degradability

Not Determined.

Bioaccumulation

Not Determined.

Mobility

Chemical Name	Partition Coefficient
Morpholine 110-91-8	-2.55

Other Adverse Effects

Not Determined.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Dispose according to all local, state and federal regulations.

Contaminated Packaging

Dispose according to all local, state and federal regulations.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not Regulated.

IATA Not Regulated.

IMDG Not Regulated.

15. REGULATORY INFORMATION

International Inventories

Not Determined.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/
European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 302

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 302.

SARA 311/312

Fire Hazard, Acute Health Hazard, Chronic Health Hazard.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Morpholine 110-91-8	X	X	X
Polyethylene Glycol Nonylphenyl Ether 9016-45-9	X	N/A	X

16. OTHER INFORMATION

NFPA	Health Hazards 2	Flammability 1	Instability 0	Special Hazards Not Determined.
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HMIS	Health Hazards Not Determined.	Flammability Not Determined.	Physical Hazards Not Determined.	Personal Protection Not Determined.
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Revision Note Formulation change.

Disclaimer

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End of Safety Data Sheet