

## Safety Data Sheet

Issue date: 19.04.2022

v 4

Last Revision Date: 15.07.2016

**1 Identification**· **Product identifier**· **Trade name: MiST Ultrasonic Cleaning Solution**· **Part number:** 203250, 98005151· **Application of the substance / the mixture** HVAC system cleaner· **Details of the supplier of the safety data sheet**· **Manufacturer/Supplier:**

CPS Products Inc.  
 1010 East 31st Street  
 Hialeah, Florida 33013 USA  
 Phone: (305) 687- 4121

· **email of person responsible:** cs@cpsproducts.com· **Emergency telephone number:**

CHEMTREC International +1 (703) 527-3887 (outside the US), 1-800-424-9300 (in the US) 24 hr

**2 Hazard(s) identification**· **Classification of the substance or mixture**

The product is not classified, according to the Globally Harmonized System (GHS).

· **Label elements**· **GHS label elements** Not Applicable· **Hazard pictograms** Not Applicable· **Signal word** Not Applicable· **Hazard statements** Not Applicable· **Additional information:** Restricted to professional users.· **Other hazards**· **PBT:** Not applicable.· **vPvB:** Not applicable.**3 Composition/information on ingredients**· **Chemical characterization: Mixtures**· **Chemical components:**

112-27-6	2,2'-(ethylenedioxy)diethanol	2.5-10%
	Amphoteric surfactant	≤ 2.5%

· **Other Ingredients**

	Polyol	≤ 2.5%
	Nonionic surfactant	≤ 2.5%
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	≤ 2.5%
111-46-6	2,2'-oxybisethanol	≤ 2.5%
112-60-7	3,6,9-trioxaundecane-1,11-diol	≤ 2.5%
64-17-5	ethanol	≤ 2.5%
32426-11-2	Octyl decyl dimethyl ammonium chloride	≤ 2.5%
7173-51-5	didecyldimethylammonium chloride	≤ 2.5%
5538-94-3	Diocetyl dimethyl ammonium chloride	≤ 2.5%

(Contd. on page 2)

## Safety Data Sheet

Issue date: 19.04.2022

v 4

Last Revision Date: 15.07.2016

**Trade name: MiST Ultrasonic Cleaning Solution**

(Contd. of page 1)

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

#### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Wash with water. If skin irritation occurs, get medical attention.

· **After eye contact:**

Rinse cautiously with water. Remove contact lenses, if present and easy to do. Get medical attention if eye irritation develops or persists.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

· **Information for doctor:** Treat Symptomatically

· **Most important symptoms and effects, both acute and delayed**

May cause respiratory tract irritation.

May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

See section 11.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

#### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture** See section 10 for additional information.

· **Advice for firefighters**

· **Protective equipment:**

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Keep people at a distance and stay upwind.

Avoid eye contact. Avoid repeated or prolonged skin contact.

· **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

(Contd. on page 3)

## Safety Data Sheet

Issue date: 19.04.2022

v 4

Last Revision Date: 15.07.2016

**Trade name: MiST Ultrasonic Cleaning Solution**

(Contd. of page 2)

- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Isolate spill or leak area immediately.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7 Handling and storage**

- **Handling:**
  - **Precautions for safe handling**  
Open and handle receptacle with care.  
Use only in well ventilated areas.  
Use good personal hygiene practices
  - **Information about protection against explosions and fires:**  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:**  
See section 10 for incompatible materials.
    - **Information about storage in one common storage facility:**  
Store in a cool dry place in tightly closed containers.
    - **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Keep from freezing.
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
    - **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Store protective clothing separately.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.  
Do not inhale dust / smoke / mist.  
Clean skin thoroughly immediately after handling the product.  
Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 4)

NA

## Safety Data Sheet

Issue date: 19.04.2022

v 4

Last Revision Date: 15.07.2016

**Trade name: MiST Ultrasonic Cleaning Solution**

(Contd. of page 3)

**· Breathing equipment:**

Use suitable respiratory protective device only when aerosol or mist is formed.

Short term filter device:

Filter AX

**· Protection of hands:**

Chemical resistant protective gloves

**· Eye protection:**

Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

**9 Physical and chemical properties****· Information on basic physical and chemical properties****· General Information****· Appearance:****· Form:**

Liquid

**· Color:**

Colorless

**· Odor:**

Chlorine-like

**· Odor threshold:**

Not determined.

**· pH-value at 20 °C:** 6.3-7.3**· Change in condition****· Melting point/Melting range:**

Undetermined.

**· Boiling point/Boiling range:**

Undetermined.

**· Flash point:** Not applicable.**· Flammability (solid, gaseous):** Not applicable.**· Decomposition temperature:** Not determined.**· Auto igniting:** Product is not selfigniting.**· Danger of explosion:** Product does not present an explosion hazard.**· Explosion limits:****· Lower:**

Not determined.

**· Upper:**

Not determined.

**· Vapor pressure:** Not determined.**· Density:** Not determined.**· Relative density at 20 °C**

0.970-1.01

**· Vapor density**

Not determined.

**· Evaporation rate**

Not determined.

(Contd. on page 5)

NA

## Safety Data Sheet

Issue date: 19.04.2022

v 4

Last Revision Date: 15.07.2016

**Trade name: MiST Ultrasonic Cleaning Solution**

(Contd. of page 4)

- |   |  |
|---|--|
| · <b>Solubility in / Miscibility with</b>         |  |
| · <b>Water:</b>                                   | Not miscible or difficult to mix.          |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| · <b>Viscosity:</b>                               |  |
| · <b>Dynamic:</b>                                 | Not determined.                            |
| · <b>Kinematic:</b>                               | Not determined.                            |
| · <b>Solvent separation test</b>                  |  |
| · <b>VOC content:</b>                             | 5.4 %                                      |
| · <b>Other information</b>                        | No further relevant information available. |

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Oxidizing agents
- **Incompatible materials:**  
Strong Oxidizers, strong acids.  
Reducing agents

**11 Toxicological information**

- **Information on toxicological effects**
  - **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

**112-27-6 2,2'-(ethylenedioxy)diethanol**

Oral	LD50	17000 mg/kg (rat)
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**68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

Oral	LD50	100 mg/kg (ATE)
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· **Primary irritant effect:**

- **on the skin:**  
Irritant to skin and mucous membranes.  
May cause mild skin irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
- **on the eye:** May cause eye irritation.
- **Inhalation:** May cause respiratory tract irritation.
- **Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
- **Sensitization:** No sensitizing effects known.

(Contd. on page 6)

-NA

## Safety Data Sheet

Issue date: 19.04.2022

v 4

Last Revision Date: 15.07.2016

**Trade name: MiST Ultrasonic Cleaning Solution**

(Contd. of page 5)

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful  
Irritant

· **IARC (International Agency for Research on Cancer)**

64-17-5 ethanol

1

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information**· **Toxicity**

- **Aquatic toxicity:** Harmful to aquatic life with long lasting effects.

- **Persistence and degradability** No further relevant information available.

- **Other information:** The product is easily biodegradable.

· **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

- **Remark:** Harmful to fish

· **Additional ecological information:**· **General notes:**

Harmful to aquatic organisms

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** Avoid release to the environment.

**13 Disposal considerations**· **Waste treatment methods**· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

NA

(Contd. on page 7)

## Safety Data Sheet

Issue date: 19.04.2022

v 4

Last Revision Date: 15.07.2016

Trade name: **MiST Ultrasonic Cleaning Solution**

(Contd. of page 6)

**14 Transport information**

· <b>UN-Number</b> · DOT, ADR, IMDG, IATA	Not Regulated
· <b>UN proper shipping name</b> · DOT, IMDG, IATA	Not Regulated
· <b>Transport hazard class(es)</b> · DOT, IMDG, IATA · Class	Not Regulated
· <b>Packing group</b> · DOT, IMDG, IATA	Not Regulated
· <b>Environmental hazards:</b> · Marine pollutant:	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Not Regulated

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No REACH Annex XVII restrictions  
Contains no REACH candidate substance

· Sara

· <b>Section 355 (extremely hazardous substances):</b>	
None of the ingredients is listed.	
· <b>Section 313 (Specific toxic chemical listings):</b>	
None of the ingredients is listed.	
· <b>TSCA (Toxic Substances Control Act):</b>	
112-27-6	2,2'-(ethylenedioxy)diethanol
	Amphoteric surfactant
	Polyol
	Nonionic surfactant
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
111-46-6	2,2'-oxybisethanol
112-60-7	3,6,9-trioxaundecane-1,11-diol
64-17-5	ethanol
32426-11-2	Octyl decyl dimethyl ammonium chloride
7173-51-5	didecyldimethylammonium chloride
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(Contd. on page 8)

-NA

## Safety Data Sheet

Issue date: 19.04.2022

v 4

Last Revision Date: 15.07.2016

**Trade name: MiST Ultrasonic Cleaning Solution**

(Contd. of page 7)

9003-11-6 | Polyethylene-polypropylene glycol

· **Proposition 65**· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Canadian substance listings:**· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

112-27-6 | 2,2'-(ethylenedioxy)diethanol

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Contact:** Engineering Department· **Issue Date**15.07.2016  
26/APR/2017· **Revision Changes:**v 1.0 - initial SDS release (2015/06/09)  
v 2.0 - modification to section 1 (2015/12/09)  
v 3.0 - revised (2016/07/28)  
v 4.0 - revised formulation (26/APR/2017)· **Abbreviations and acronyms:**ADR: Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association

(Contd. on page 9)

NA



## Safety Data Sheet

Issue date: 19.04.2022

v 4

Last Revision Date: 15.07.2016

**Trade name: MiST Ultrasonic Cleaning Solution**

(Contd. of page 8)

EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health

NA