

Acecide-C **Solution 1****Section 1****Product Description**

Product Name: Acecide-C Solution 1
 Synonyms: Peracetic Acid
 Distributor: Best Sanitizers, Inc.
 PO Box 1360 Penn Valley, CA 95946

Chemical Information Emergency:
 Chemtrec 1.800.424.9300

Section 2**Hazard Information****OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation Category 1
 Skin corrosion/irritation Category 1

Danger**Hazard Statements**

Causes serious skin burns and eye damage.

Appearance—Aqueous solution

Physical state—Liquid

Odor—Vinegar odor

Precautionary Statements—Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Keep away from heat/open flames/hot surfaces—No smoking.

Precautionary Statements—Response

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 CENTER or doctor/physician.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin (hair) with water/shower. Wash contaminated clothing and shoes before reuse.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

Precautionary Statements—Storage

Store in a well-ventilated place. Keep cool.

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Precautionary Statements—Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

Not Applicable

Other Information

*Harmful to aquatic life with long lasting effects.

*Harmful to aquatic life.

Unknown acute Toxicity No information available

Section 3

Composition/Information on Ingredients

| Chemical Name | CAS No. | Weight% |
|-------------------|-----------|---------|
| Water | 7732-18-5 | < 54% |
| Acetic Acid | 64-19-7 | 25-35% |
| Peracetic Acid | 79-21-0 | < 9% |
| Hydrogen Peroxide | 7722-84-1 | < 9% |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4

First Aid Measures

First Aid Measures

Eye Contact

Hold eye(s) open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye(s). Seek medical advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing and shoes before reuse. For severe burns, immediate medical attention is required.

Inhalation

Remove to fresh air. Administer oxygen if breathing is difficult. Call a physician immediately.

Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms

See Section 11 for symptom information.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

Section 5

Fire-Fighting Measures

Suitable Extinguishing Media

Dry Chemical. Water spray (fog), Carbon dioxide (CO₂), Foam.

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Unsuitable Extinguishing Media

No Information available.

Specific hazards arising from the chemical

Solution does not burn. In the event of a fire, product may decompose yielding oxygen. Risk of overpressure and burst due to decomposition in confined spaces. Release of oxygen may support combustion.

Explosion Data

Sensitivity to Mechanical Impact None

Sensitivity to Static Discharge May be ignited by friction, heat, sparks or flames.

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. Cool containers with flooding quantities of water until well after fire is out. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Section 6

Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas.

For emergency responders

Isolate area. Keep unnecessary personnel away.

Environment Precautions

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. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (See Section 13).

Methods for cleaning up

Collect spillage. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water.

Section 7

Handling and Storage

Precautions for Safe Handling

Advice on Safe Handling

Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Use only in well-ventilated areas. Avoid breathing vapors or mists. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions

For use in Olympus OER equipment. Any non-intended or non-authorized use of this product may result in severe personal injury or damage to equipment. Do not manually open container. Do not open machine while in use. Note: Once the Acecide-C Solutions are mixed in the OER machine the resulting solution should be handled in accordance with the Acecide Use Solution SDS. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Use only in well-ventilated areas. Avoid breathing vapors or mists. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Incompatible materials

Keep Containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing. Keep away from direct sunlight and incompatible materials. Store between 0°C to 25°C.

Section 8**Protection Information****Exposure Guidelines**

| Chemical Name | Exposure Limits |
|--------------------------------|---|
| Hydrogen Peroxide 7722-84-1 | 1 ppm 1.4 mg/m ³ (TWA) |
| Acetic Acid 64-19-7 | 10 ppm 25 mg/m ³ (TWA) 15 ppm 37 mg/m ³ (STEL) |

Appropriate Engineering Controls

Engineering Controls Showers, eyewash stations, ventilation system.

Individual Protection Measures, such as personal protective equipment

| | |
|--------------------------------|---|
| Eye/Face protection | Splash proof chemical goggles and face shield. |
| Skin and body protection | Wear protective gloves. Normal work clothing (long sleeved shirt and long pants) is recommended. Apron recommended. |
| Respiratory protection | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| General Hygiene Considerations | Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing and shoes before reuse. Do not Eat, Drink or Smoke when using this product. |

Section 9**Physical and Chemical Properties****Information on basic physical and chemical properties**

| | | | |
|-----------------|--------------------------|-----------------|------------------|
| Formula: | See Section 3 | Physical State: | Liquid |
| Odor: | Vinegar Smell | Appearance: | Aqueous solution |
| Odor Threshold: | No Information Available | Color: | Clear |

| <u>Property</u> | <u>Values</u> | <u>Remarks—Method</u> |
|------------------------------|--------------------------|------------------------------|
| pH | < 1 (undiluted) | ± 1 @ 21°C |
| Melting Point/Freezing Point | No information available | |
| Boiling Point/ Boiling Range | No information available | |
| Flash Point | None | |
| Evaporation rate | No information available | |
| Flammability (solid, gas) | No information available | |

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|---------------------------|--------------------------|
| Flammability Limit in Air | |
| Upper flammability limit: | No information available |
| Lower flammability limit: | No information available |
| Vapor pressure: | 22mm Hg @ 25 °C |
| Vapor density: | No information available |
| Specific Gravity | 1.1 g/cc |
| Water solubility | Soluble in water |
| Partition coefficient | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Kinematic viscosity | No information available |
| Dynamic viscosity | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |

Section 10

Stability and Reactivity Data

| | |
|---|--|
| Chemical Stability | Decompose on heating and over time. |
| Possibility of Hazardous Reactions | Degrades giving off acetic acid and oxygen. |
| Conditions to avoid | Open flames, elevated temperatures, any source of heat. Protect against physical damage. |
| Incompatible materials | Dirt, alkali, organics, leather and all metals except stainless steel. |
| Hazardous Decomposition Products | Oxygen produced on decomposition. |

Section 11

Toxicity Data

Information on likely routes of exposure

Product Information

| | |
|--------------|--|
| Inhalation | Inhalation of vapors in high concentration may cause irritation to the mucous membranes. Irritating to eyes. Pain and reddening will occur. Severe damage may result if not treated immediately. |
| Eye Contact | |
| Skin Contact | Causes irritation, redness and possible burning on contact with skin. |
| Ingestion | May cause irritation and tissue damage to the mucous membranes. |

| Chemical Name | Oral LD50 |
|--------------------------------|------------------|
| Peracetic Acid 79-21-0 | 210mg/kg (mouse) |
| Hydrogen Peroxide 7722-84-1 | 1518mg/kg (rat) |
| Acetic Acid 64-19-7 | 3310mg/kg (rat) |

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Information on toxicological effects

Symptoms No Information Available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No Information Available

Germ cell mutagenicity No Information Available

Carcinogenicity No Information Available

Reproductive toxicity No Information Available

STOT single exposure No Information Available

STOT repeated exposure No Information Available

Aspiration hazard No Information Available

Section 12

Ecological Data

Ecotoxicity

No Information Available.

Persistence and degradability

No Information Available.

Bioaccumulation

No Information Available.

Mobility

No information available

Section 13

Disposal Information

Waste treatment methods

Disposal of wastes

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations. Before disposal, check to see if the wastewater conforms to the local, federal, state and national standards (for pH, BOD, COD and other measures). Check with your local Publicly Owned Treatment Works (POTW) to determine if peracetic acid solutions like Acecide-C Solution 1 and Acecide-C Use-Solution can be disposed of in the sanitary sewer system. Some POTWs may prohibit the disposal of peracetic acid solutions in the sanitary sewer or may require dilution with copious amounts of water and/or neutralization prior to disposal. In most cases, Acecide-C Use-Solution can be disposed of direct to drain but there may be exceptions.

(1) Before disposal, mix Acecide-C Solution 1 with Acecide-C Solution 2 and sufficiently dilute with copious amounts of water.

(2) Mix with alkaline chemicals to neutralize and degrade hydrogen peroxide and peracetic acid.

(3) Add a reducing agent such as sodium thiosulfate (pentahydrate) to degrade hydrogen and peracetic acid.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

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Contaminated packaging

Dispose of in accordance with federal, state and local regulations. Rinse empty containers thoroughly before recycling or disposing to an authorized landfill.

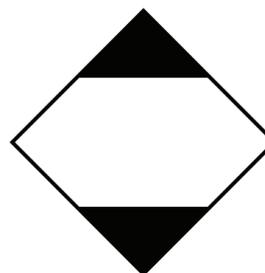
Section 14

Ecological Data

Classified as Dangerous Goods by the criteria of the European Transportation Law, including the following regulations: ADR, RID, ANDR, IMDG and ICAO/IATA.

US DOT Approval CA2013030021 as the Competent Authority expiring July 31, 2018 stating that Acecide-C Solution 1 meets the definition of an Organic Peroxide Type G and is not regulated as an organic peroxide in accordance with the provisions of the approval. Acecide-C Solution 1 is packaged as a limited quantity of corrosive liquid, acidic, organic material. For ground shipments only.

| | |
|-------------------------------------|--|
| UN Number | 3265 |
| UN Proper Shipping Name | Corrosive liquid, acidic, organic, n.o.s. (acetic acid, peracetic acid, hydrogen peroxide) Not regulated as an organic peroxide |
| Class and subsidiary risk | Class 8—Corrosive |
| Packing Group | II |
| Special precautions for user | Keep Out of Direct Sunlight, Keep from freezing, Cleaning Compounds. Approval for motor vehicle transport only. |
| Hazchem Code | Not available. |



Classified as Dangerous Goods by the criteria of the European Transportation Law, including the following regulations: ADR, RID, ADNR, IMDG and ICAO/IATA.

International Shipments UN

| | |
|----------------------------------|---|
| Number | 3109 |
| UN Proper Shipping Name | Organic Peroxide Type F (Peroxyacetic Acid Type F Stabilized) 5.2 Organic Peroxide, |
| Class and subsidiary risk | Sub 8 — Corrosive |
| Packing Group | II |
| SADT | 110° C |



Section 15**Regulatory Information****International Inventories**

| | |
|----------------------|-----------------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Does not Comply |

Legend:**TSCA—United States Toxic Substances Control Act Section 8(b) Inventory****DSL/NDSL— Canadian Domestic Substances List/Non-Domestic Substances List****EINECS/ELINCS—European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances****US Federal Regulations SARA****313**

Section 313 of Title III of the Superfund Amendments and Reauthorization of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Note: Isopropyl alcohol only needs to be reported if it is being manufactured by the strong acid process. Facilities that process or otherwise use isopropyl alcohol are NOT covered and should NOT file a report.

CWA (Clean Water Act)

This product does not contain any substance regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substance regulated as a hazardous substance under the Comprehensive Environment Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local regional or state level pertaining to releases of this material.

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations**U.S. EPA Label Information**

| | |
|--|----------------|
| EPA Pesticide Registration Number | Not Applicable |
|--|----------------|

Section 16**Additional Information**

| <u>HMIS</u> | Health Hazards | Flammability | Physical Hazards | Personal protection |
|-------------|----------------|--------------|------------------|---|
| | 4 | 0 | 2 | C (safety glasses, gloves, synthetic apron) |

Prepared by: Technical Department
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Revision Note Review

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet