

# SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

## SECTION 1: Identification

**Product identifier** 

Product name

Bleach Reagent #2

Product number

R-0665, R-0665-PL

Recommended use and

restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

manufacturer.

Manufacturer Taylor Technologies, Inc.

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Emergency phone: (800) 837-8548

# SECTION 2: Hazard(s) Identification

Physical hazardsFlammable liquidCategory 3Health hazardsEye damage/irritationCategory 1Skin corrosion/irritationCategory 1A

**Environmental hazards** 

Label elements

Hazard pictograms

Signal word Danger

Hazard statements Flammable liquid and vapor. Causes severe skin burns and serious eye damage.

Precautionary statements

Prevention Keep away from heat/sparks/open flames/hot surfaces. -No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection if contact is likely to occur. Do not breathe dust

or mists. Wash skin thoroughly after handling.

Response IN CASE OF FIRE: Use alcohol-resistant foam, carbon dioxide, dry chemical powder, or water

fog to extinguish. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a physician or poison control center. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep

comfortable for breathing. Immediately call a physician or poison control center.

Storage Store in well-ventilated place. Keep cool. Keep tightly capped. Store out of direct sunlight

between 36°F–85°F. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazards not otherwise classified Not applicable

# SECTION 3: Composition/Information on Ingredients

**Mixture** 

Chemical nameCommon name and synonymsCAS number% w/wAcetic AcidGlacial Acetic Acid64-19-780-100

### SECTION 4: First-Aid Measures

### If inhaled

Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

SDS US

#### In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical attention if irritation develops.

#### In case of eve contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice.

#### If swallowed

Immediately call a physician or poison control center. Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

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

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

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

Provide general supportive measures and treat symptomatically.

#### **General information**

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

# SECTION 5: Firefighting Measures

# **Extinguishing media**

Suitable extinguishing media Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### Specific hazards arising from the substance or mixture

Fire hazard Flammable liquid and vapor. Vapors may travel considerable distance to a source of ignition

and flash back. This product is a poor conductor of electricity and can be electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential static discharge, use proper bonding and grounding procedures. This material may be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment). Vapors are heavier than air and may spread along

floors.

Explosion hazard Vapors may form explosive mixtures with air. This material may be ignited by heat, sparks,

flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical

equipment). Vapors are heavier than air and may spread along floors.

Reactivity Hazardous reactions will not occur under normal conditions.

Advice for firefighters

Precautionary measures Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting

equipment/instructions

Use water spray or fog for cooling exposed containers.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Refer to section 9 of the SDS for flammability properties.

## SECTION 6: Accidental Release Measures

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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

### **Environmental precautions**

Avoid discharge into drains, watercourses, or onto the ground.

## Methods and material for containment and cleaning up

Ventilate the contaminated area. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area with water to remove residual contamination. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

# SECTION 7: Handling and Storage

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

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fumes/gas/mists/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

### Conditions for safe storage, including any incompatibilities

Store in well-ventilated place. Keep cool. Keep tightly capped. Store out of direct sunlight between 36°F–85°F. Store locked up. Store away from incompatible materials (refer to section 10 of the SDS).

# SECTION 8: Exposure Controls/Personal Protection

### Occupational exposure limits

#### **US ACGIH Threshold Limit Values**

Components	Туре	<u>Value</u>	
Acetic acid (CAS 64-19-7)	TWA	25 mg/m <sup>3</sup>	
Acetic acid (CAS 64-19-7)	STEL	37 mg/m <sup>3</sup>	
US NIOSH: Pocket Guide to Chemical Haz	zards		
Components	Туре	<u>Value</u>	
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US OSHA Table Z-1 Limits for Air Contam	inants (29 CFR 1910.1000)		
Components	Type	Value	

### **Biological limit values**

## **ACGIH Biological Exposure Indices**

Acetic acid (CAS 64-19-7)

No biological exposure limits noted for the ingredient(s).

#### **Exposure controls**

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates

TWA

should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling

25 mg/m<sup>3</sup>

this product.

Personal protective equipment

Eye/face protection Wear appropriate chemical safety goggles if contact is likely to occur.

Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.

Body protection Wear appropriate protective clothing if contact is likely to occur.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the

exposure limits. Advice should be sought from respiratory protection suppliers.

### SECTION 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state Liquid
Form Liquid
Color Colorless
Odor Pungent

Odor threshold No data available

pH 2.4

Evaporation rate

Melting point

Melting point

Freezing point

Initial boiling point (boiling range)

No data available

244.2 °F / 117.9 °C

Flash point 102 °F / 39 °C

Specific gravity No data available

Auto-ignition temperature No data available

Decomposition temperature No data available

Flammability (solid, gas) Flammable

Upper Flammability Limit 19.9 %(V)

Lower Flammability Limit 4 %(V)

Vapor pressure No data available

Vapor density 2.1

Relative density 1.05 (77 °F / 25 °C)
Solubility Soluble in all proportions

Partition coefficient -0.17

(n-octanol/water)

Viscosity

No data available

Explosive properties

No data available

Oxidizing properties

No data available

# SECTION 10: Stability and Reactivity

**Reactivity** Hazardous reactions will not occur under normal conditions.

**Chemical stability** Stable under recommended handling and storage conditions (refer to section 7 of the SDS)

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use

Conditions to avoid Contact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials Carbonates, chromic acid, hydroxides, metals, nitric acid, permanganates, peroxides,

phosphates, strong bases, and strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products under normal conditions.

# SECTION 11: Toxicological Information

### Information on toxicological effects

Likely routes of exposure are skin/eye contact and ingestion.

Most important

symptoms/effects, acute and

delayed

Direct skin contact may cause corrosive skin burns, deep ulcerations, and possibly permanent

scarring.

Direct contact with concentrated solutions may be corrosive and may cause severe damage, including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and

breathing difficulties.

Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus, and possibly the digestive tract. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding.

**Acute toxicity** This product is not classified as an acute toxicity hazard.

Skin corrosion/irritation Causes severe skin burns.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo data available

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not classifiable

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not classifiable

**US National Toxicology Program (NTP) Report on Carcinogens** 

Not classifiable

Reproductive toxicity No data available

Specific target organ toxicity

(single exposure)

No data available

Specific target organ toxicity

(repeated exposure)

No data available

No data available **Aspiration hazard** 

# SECTION 12: Ecological Information

**Ecotoxicity** This product is not classified as environmentally hazardous.

Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available

Other adverse effects Large or frequent spills can have a harmful or damaging effect on the environment.

## SECTION 13: Disposal Considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

# SECTION 14: Transport Information

DOT

**UN** number 2789

**UN Proper shipping name** Acetic acid solution

Reportable Quantity 5000 lbs.

Class (Subsidiary risk) 8 8, 3 Label(s) Ш Packing group

Special provisions A3, A7, A10, B2, IB2, T7, TP2

Packaging exceptions 154 Packaging, non-bulk 202

**IATA** 

**UN** number 2789

**UN Proper shipping name** Acetic acid, glacial

Class (Subsidiary risk) 8 (3) Ш Packing group Special provisions None

**IMDG** 

2789 **UN** number

**UN Proper shipping name** Acetic acid solution

Class (Subsidiary risk) 8 (3) Ш **Packing group** 

**Environmental hazards** 

Marine pollutant No Special provisions None

**EmS** F-E, S-C

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code

**DOT** hazard pictograms

This substance/mixture is not intended to be transported in bulk.







# SECTION 15: Regulatory Information

**US** federal regulations

**CERCLA Hazardous Substance (40 CFR 302.4)** 

 Chemical name
 CAS number
 Reportable Quantity

Acetic acid 64-19-7 5000 lbs.

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

**SARA 304 Emergency Release Notification** 

Not regulated

SARA 311/312 Hazardous Chemical

Chemical nameCAS numberAcetic acid64-19-7

SARA 313 (TRI reporting)

Not regulated

**TSCA Section 8(b) Chemical Inventory** 

All components are on the U.S. EPA TSCA Inventory list.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

Clean Water Act, Toxic and Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A)

Chemical nameCAS numberAcetic acid64-19-7

Safe Drinking Water Act (SDWA)

Not regulated

**US** state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

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

Massachusetts Right-to-Know Act

Not regulated

New Jersey Worker and Community Right-to-Know Act

Chemical nameCAS numberAcetic acid64-19-7

Pennsylvania Worker and Community Right-to-Know Act

Chemical nameCAS numberAcetic acid64-19-7

Rhode Island Right-to-Know Act

Chemical name CAS number

Acetic acid

64-19-7

# SECTION 16: Other Information

#### NFPA Rating

 Health hazard
 3

 Fire hazard
 2

 Reactivity
 0

 Specific
 N/A

#### **Disclaimer**

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