# SAFETY DATA SHEET

**Revision : September**, 2020 **Version :** 2

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** **TOUGH WIPES**

**Other means of identification**

**Synonyms** **Disinfecting & Cleaning**

**Distributor Address**
**CE Tools, Inc.**
PO Box 3212
Clarksville, TN 37043
Phone : +1 615 540 10 84

**Emergency telephone number**

Emergency telephone numbers For Transportation Emergencies,
Call Chemtrec 1-800-424-9300

**Recommended Use of the Chemical and Restrictions on Use**

**Recommended use** Human hygiene biocidal products

**Restrictions on use** This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

## 2. HAZARDS IDENTIFICATION

**Classification**

| | |
|---|---|
| Eye irritation | Category 2B |
| Skin Corrosion / Irritation | Category 3 |

**Signal Word** **Warning**

**Hazard Statements**
Causes serious eye irritation.
Causes mild skin irritation.

**Precautionary Statements – Prevention**
Wash hands thoroughly before touching eyes.

**Precautionary Statements – Response**

If skin irritation occurs: Get medical advice/attention.

IF IN EYES: 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.

**Precautionary Statements – Storage**
N/A

**Precautionary Statements – Disposal**
N/A

**Other hazards**
N/A

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Concentration ( %) |
|---|---|---|
| Benzalkonium Chloride | 8001-54-5 | >= 0.1 -< 1% |
| Ethanol | 64-17-5 | > =0.1 -< 1% |
| Didecyldimethylammonium chloride | 7173-51-5 | > =0.1 -< 1% |
| Diazolidinyl urea | 78491-02-8 | > =0.1 -< 1% |

## 4. FIRST AID MEASURES

**First aid measures**

**General Advice** In the case of accident or if you feel unwell, seek medical advice immediately. When the symptoms persist or in all cases of doubt seek medical advice. Show this safety data sheet to the doctor in attendance.

**Eye Contact** If in eyes, rinse slowly and gently with water for 15-20 minutes. If present, remove contact lenses. If irritation persists, call a poison control center or doctor for further treatment advice.

**Skin Contact** None anticipated to be needed. Product is a personal care product intended for use on skin.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**Ingestion** If swallowed, call a physician immediately. Rinse mouth and throat thoroughly with water. Do not induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. If patient is conscious and alert, give large amounts of water. Get medical attention.

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

**Most Important Symptoms and Effects** Causes serious eye irritation. See section 11 for information.

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

**Notes to Physician** Treat symptomatically and supportively.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:**
Dry chemical, carbon dioxide ($CO_2$), alcohol resistant foam, water spray.

**Unsuitable Extinguishing Media:**
Do not use water jet as an extinguisher, as this will spread the fire.

**Specific Hazards Arising from the Chemical:**
Alcohol flames may not be readily visible. Vapors are heavier than air and may travel to source of ignition and flash back possible over a considerable distance. Do not use a solid water stream as it may scatter and spread fire. Exposure to combustion products may be a hazard to health.

**Hazardous Combustion Products:**
Thermal decomposition may yield carbon monoxide, carbon dioxide and hydrocarbons.

**Specific Extinguishing Methods:**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

**Protective Equipment and Precautions for Firefighters:**
Firefighters should wear full emergency equipment and a NIOSH approved positive pressure self-contained breathing apparatus. Cool fire exposed containers and structures with water.

## 6. ACCIDENTAL RELEASE MEASURES

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

| | |
|---|---|
| **Personal Precautions** | Ensure adequate ventilation. Use personal protective equipment as required. Eliminate all potential sources of ignition. |

**Environmental precautions**

| | |
|---|---|
| **Environmental precautions** | Local authorities should be advised if significant spillages cannot be contained. 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** | Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

## 7. HANDLING AND STORAGE

| | |
|---|---|
| **Technical measures** | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
| **Local/Total ventilation** | Use with local exhaust ventilation. |
| **Advice on safe handling** | Handle in accordance with good industrial hygiene and safety practice.<br>Do not breathe vapors or spray mist.<br>Do not swallow.<br>Do not get in eyes.<br>Avoid prolonged or repeated contact with skin.<br>Keep container tightly closed.<br>Take care to prevent spills, waste and minimize release to the environment. |
| **Conditions for safe storage** | Keep in properly labeled containers.<br>Keep tightly closed.<br>Keep in a cool, well-ventilated place.<br>Store in accordance with the particular national regulations.<br>Keep away from heat and sources of ignition. |
| **Materials to avoid** | Do not store with the following product types: |

Strong oxidizing agents
Organic peroxides
Flammable solids
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures which in contact with water emit flammable gases
Explosives
Gases

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Ingredients with workplace control parameters**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Benzalkonium Chloride<br>CAS-No. 8001-54-5 | None | None | None |
| Ethanol<br>CAS-No. 64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm<br>TWA 1900 mg/m$^3$ | TWA: 1000 ppm<br>TWA 1900 mg/m$^3$ |
| Didecyldimethylammonium chloride CAS-No. 7173-51-5 | None | None | None |
| Diazolidinyl urea<br>CAS-No. 78491-02-8 | None | None | None |

*ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.*

**Appropriate engineering controls**

**Engineering Measures**
Showers.
Eyewash stations.
Minimize workplace exposure concentrations.
Use with local exhaust ventilation.

**Personal protective equipment**

**Respiratory protection**
General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

| | |
|---|---|
| **Eye protection** | Wear the following personal protective equipment: Safety goggles |
| **Skin and body protection** | Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. |
| **Hygiene measures** | Ensure that eye flushing systems and safety showers are located close to the working place. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical and Chemical Properties**

| | | | |
|---|---|---|---|
| **Physical State** | Liquid | | |
| **Appearance** | Wipe | **Odor** | Unscented |
| **Color** | White | **Odor Threshold** | No information available |

| **Property** | **Values** | **Remarks/ Method** |
|---|---|---|
| pH | No data available | None known |
| Melting/freezing point | No data available | None known |
| Boiling point / boiling range | No data available | None known |
| Flash Point | No data available | None known |
| Evaporation rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limits in Air | | |
| Upper flammability limit | No data available | None known |
| Lower flammability limit | No data available | None known |
| Vapor pressure | No data available | None known |
| Vapor density | No data available | None known |
| Specific Gravity | 0.98 | None known |
| Water Solubility | Complete | None known |
| Solubility in other solvents | No data available | None known |
| Partition coefficient: | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Reactivity** | : The product is stable and non-reactive under normal conditions of use, storage and transport. |
| **Chemical stability** | : Stable under normal conditions. |
| **Possibility of hazardous reactions** | : Hazardous polymerization does not occur. |
| **Conditions to avoid** | : Heat, open flames, hot surfaces and sparks. |
| **Incompatible materials** | : Oxidizing agents, acids. |
| **Hazardous decomposition products** | : Carbon monoxide, carbon dioxide. |

## 11. TOXICOLOGICAL INFORMATION

**Information on Likely Routes of Exposure**

**Product Information**

| | |
|---|---|
| **Inhalation** | Inhalation of high concentrations of vapor or mist may cause dizziness. |
| **Eye Contact** | May cause serious eye irritation. |
| **Skin Contact** | Prolonged skin contact may cause temporary irritation. |
| **Ingestion** | No harmful effects expected in amounts likely to be ingested by accident. |

**Information on toxicological effects**

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Benzalkonium Chloride CAS-No. 8001-54-5 | 240 mg/kg (rat) | 3412 mg/kg (rabbit) | 0.25 mg/l (rat, 4 h) |
| Ethanol CAS-No. 64-17-5 | 7060 mg/kg (rat) | >2000 mg/kg (rabbit) | 64.1 mg/l (rat, 4 h) |
| Didecyldimethylammonium chloride CAS-No. 7173-51-5 | 84 mg/kg (rat) | >2000 mg/kg (rat) | Not listed |
| Diazolidinyl urea CAS-No. 78491-02-8 | 2600 mg/kg (rat) | >2000 mg/kg (rabbit) | Not listed |

| | |
|---|---|
| **Skin corrosion/irritation** | Prolonged skin contact may cause temporary irritation. |
| **Serious eye damage/eye irritation** | Causes serious eye irritation. |
| **Respiratory or skin sensitization** | |
| Skin sensitization | Not classified based on available information. |
| Respiratory sensitization | Not classified based on available information. |
| **Germ cell mutagenicity** | Not classified based on available information. |
| Genotoxicity in vitro | Not mutagenic components identified. |
| Genotoxicity in vivo | Not mutagenic components identified. |
| **Carcinogenicity** | |
| **IARC** | No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| **OSHA** | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |
| **NTP** | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |
| **Reproductive toxicity** | Not classified based on available information. |
| **Specific Target Organ Toxicity Single Exposure** | May cause drowsiness and dizziness. |
| **Specific Target Organ Toxicity Repeated Exposure** | Kidney: caused kidney effects in male rats which are not considered to humans. |
| **Aspiration Toxicity** | Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. |

**Other Effects**

Remarks: Exposure may enhance the toxicity of other materials.
Classifications by other authorities under varying regulatory frameworks may exist.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

| Components | | Species | Test Results |
|---|---|---|---|
| **Benzalkonium Chloride CAS-No. 8001-54-5** | | | |
| Toxicity to fish | LC50 | Oryzias latipes | 2.4 mg/l, 96 Hours |
| | LC50 | Oncorhynchus mykiss (rainbow trout) | 0.85 mg/l, 96 Hours |
| Toxicity to daphnia and other aquatic invertebrates | EC50 | Daphnia magna (water flea) | 0.016 mg/l, 48 Hours |
| Toxicity to algae | EC50 | (Pseudokirchneriella subcapitata (green algae) | 0.049 mg/l, 72 Hours |
| Very toxic to aquatic life. | | | |
| **Ethanol CAS-No. 64-17-5** | | | |
| Toxicity to fish | LC50 | Pimephales promelas (fathead minnow) | 100 mg/l, 96 Hours |
| Toxicity to daphnia and other aquatic invertebrates | EC50 | Daphnia magna (water flea) | 7.7 mg/l, 48 Hours |
| Toxicity to algae | EC50 | Selenastrum capricornutum (green algae) | 1000 mg/l, 96 Hours |
| **Didecyldimethylammonium chloride CAS-No. 7173-51-5** | | | |
| Toxicity to fish | LC50 | Danio rerio (zebra fish) | 0.97 mg/l, 96 Hours |
| Toxicity to daphnia and other aquatic invertebrates | EC50 | Daphnia magna (Water flea) | 0.057 mg/l, 48 Hours |
| Toxicity to algae | EC50 | Pseudokirchneriella subcapitata (green algae) | 0.053 mg/l, 72 Hours |
| **Diazolidinyl urea CAS-No. 78491-02-8** | | | |
| Not listed | | | |

**Persistence and Degradability**

| Ingredients | Biodegradability Result |
|---|---|
| Benzalkonium Chloride CAS-No. 8001-54-5 | Readily biodegradable |
| Ethanol CAS-No. 64-17-5 | Readily biodegradable |
| Didecyldimethylammonium chloride CAS-No. 7173-51-5 | Readily biodegradable |
| Diazolidinyl urea CAS-No. 78491-02-8 | Not Listed |

**Bioaccumulative potential**

| Chemical Name | Log Pow |
|---|---|
| Benzalkonium Chloride CAS-No. 8001-54-5 | 0.004 |
| Ethanol CAS-No. 64-17-5 | -0.31 |
| Didecyldimethylammonium chloride CAS-No. 7173-51-5 | -0.4 |
| Diazolidinyl urea CAS-No. 78491-02-8 | Not listed |

**Mobility in soil** No data available
**Other adverse effects** No data available

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

**Waste from residues** : Dispose of in accordance with local regulations.
**Contaminated packaging** : Dispose of as unused product.

## 14. TRANSPORT INFORMATION

**International Regulation**

**UNRTDG**
Not regulated as a dangerous good

**IATA-DGR**
Not regulated as a dangerous good

**IMDG-Code**
Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Not applicable for product as supplied.

**Domestic regulation**

**49 CFR**
Not regulated as a dangerous good

## 15. REGULATORY INFORMATION

**U.S. Federal Regulations**

**SARA 313** **:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name | Concentration % |
|---|---|
| 3-Iodo-2-propynyl butylcarbamate Cas No. 55406-53-6 | 0.01– 0.1 % |

**SARA 311/312 Hazard Categories** **:** This product has the following hazards that are reportable under the emergency Planning and Community Right-to-Know rule (EPCRA Tier II).

- Acute toxicity
- Serious eye damage/eye irritation

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

**CERCLA/EPCRA** **:** This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Response Compensation and Liability Act (CERCLA) (40 CFR 302) or as an extremely hazardous substance (EHS) under the Emergency Planning and Community Right to Know Act (EPCRA) / Superfund Amendments and Reauthorization Act (SARA).

**US State Regulations**

| Chemical name | % | New Jersey | Massachusetts | Pennsylvania | Rhode Island |
|---|---|---|---|---|---|
| 1,2-Propanediol Cas No. 57-55-6 | 0.1 – 1 % | **X** | | **X** | **X** |
| Ethanol<br>Cas No. 64-17-5 | 0.1 – 1 % | **X** | **X** | **X** | **X** |
| 3-Iodo-2-Propynyl Butylcarbamate<br>Cas No. 55406-53-6 | 0.01– 0.1 % | **X** | | | |

**California Prop 65** This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**The ingredients of this product are reported in the following inventories:**

AICS : All ingredients listed or exempt.

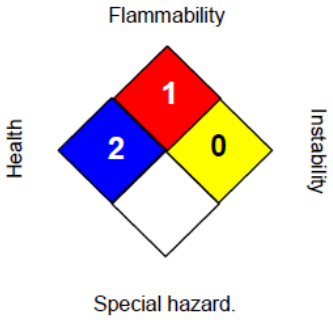
**Inventories**

TSCA (USA) : Complies
DSL (Canada) : Complies
Australia inventory (AICS) : Not determined.
China inventory (IECSC) : Not determined.
Japan inventory (ENCS) : Not determined.
Japan inventory (ISHL) : Not determined.
Korea inventory (KECI) : Not determined.
New Zealand Inventory of Chemicals (NZIoC) : Not determined.
Philippines inventory (PICCS) : Not determined.
Taiwan Chemical Substances Inventory (TCSI) : Not determined.
Thailand inventory : Not determined.
Turkey inventory : Not determined.
Vietnam inventory : Not determined.

## 16. OTHER INFORMATION

**Further information**

**NFPA:**




**HMIS III:**

| | |
|---|---|
| HEALTH | 2 |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

**Full text of other abbreviations**

| | |
|---|---|
| **ACGIH** | : USA. ACGIH Threshold Limit Values (TLV) |
| **ACGIH BEI** | : ACGIH - Biological Exposure Indices (BEI) |
| **NIOSH REL** | : USA. NIOSH Recommended Exposure Limits |
| **OSHA Z-1** | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-its for air Contaminants |
| **ACGIH / TWA** | : 8-hour, time-weighted average |
| **ACGIH / STEL** | : Short-term exposure limit |
| **NIOSH REL / TWA** | : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| **NIOSH REL / ST** | : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday |
| **OSHA Z-1 / TWA** | : 8-hour time weighted average |
| **Sources of key data used to compile the Material Safety Data Sheet** | **:** Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-cy, http://echa.europa.eu/ |
| **Revision Date** | : 09/11/2020 |

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

**End of Safety Data Sheet**