



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Peroxide Cleaner Concentrate (Product No. 34, Twist 'n Fill™ System)

Product Identification Numbers

61-0000-6357-0, 61-0000-6358-8, 61-0000-6392-7, 61-0000-6393-5, 70-0715-9554-3, 70-0715-9565-9, 70-0715-9566-7, 70-0715-9567-5, 70-0716-8372-9, 70-0716-8373-7, 70-0716-8374-5, 70-0716-8375-2

1.2. Recommended use and restrictions on use

Recommended use

Hard Surface Cleaner. Peroxide Cleaning Solution. No fragrance added.

This product meets Green Seal™ Standard GS-37 based on effective performance, concentrated volume, minimized/recycled packaging, and protective limits on: VOCs and human & environmental toxicity. Skin/eye damage met requirements at the as-used dilution, as specified for closed dilution systems. GreenSeal.org.,

1.3. Supplier's details

| | |
|----------------------|---|
| MANUFACTURER: | 3M |
| DIVISION: | Commercial Solutions Division |
| ADDRESS: | 3M Center, St. Paul, MN 55144-1000, USA |
| Telephone: | 1-888-3M HELPS (1-888-364-3577) |

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Serious Eye Damage/Irritation: Category 1.
Skin Corrosion/Irritation: Category 2.

2.2. Label elements

Signal word

Danger

Symbols

Corrosion |

Pictograms

**Hazard Statements**

Causes serious eye damage.
Causes skin irritation.

Precautionary Statements**General:**

Keep out of reach of children.

Prevention:

Wear eye/face protection.
Wear protective gloves.
Wash thoroughly after handling.

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: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

2.3. Hazards not otherwise classified

May cause chemical gastrointestinal burns.
10% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---------------------------------------|------------|------------------------|
| WATER | 7732-18-5 | 60 - 90 Trade Secret * |
| ETHOXYLATED C9-11 ALCOHOLS | 68439-46-3 | 7 - 13 Trade Secret * |
| HYDROGEN PEROXIDE | 7722-84-1 | 3 - 7 Trade Secret * |
| 1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID | 2809-21-4 | < 0.1 Trade Secret * |
| Sodium Hydroxide | 1310-73-2 | < 0.1 Trade Secret * |

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures**Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Material will not burn. Non-combustible. Use a fire fighting agent suitable for surrounding fire.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide

Carbon dioxide

Oxides of Nitrogen

Oxides of Phosphorus

Condition

During Combustion

During Combustion

During Combustion

During Combustion

5.3. Special protective actions for fire-fighters

No unusual fire or explosion hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

This product is not intended to be used without prior dilution as specified on the product label. Grounding or safety shoes with electrostatic dissipating soles (ESD) are not required with a chemical dispensing system. Keep out of reach of children.

Avoid breathing fume/vapors. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|-------------------|-------------------|---------------|----------------------|----------------------------|
| Sodium Hydroxide | 1310-73-2 | ACGIH | CEIL:2 mg/m3 | |
| Sodium Hydroxide | 1310-73-2 | CMRG | TWA:2 mg/m3 | |
| Sodium Hydroxide | 1310-73-2 | OSHA | TWA:2 mg/m3 | |
| HYDROGEN PEROXIDE | 7722-84-1 | ACGIH | TWA:1 ppm | |
| HYDROGEN PEROXIDE | 7722-84-1 | OSHA | TWA:1.4 mg/m3(1 ppm) | |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

NOTE: When used with a chemical dispensing system as directed, special ventilation is not required. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control fume/vapors. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

NOTE: When used with a chemical dispensing system as directed, eye contact with the concentrate is not expected to occur. If the product is not used with a chemical dispensing system or if there is an accidental release, wear protective eye/face protection. If product is not used with a chemical dispensing system or if there is an accidental release: Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

Skin/hand protection

NOTE: When used with a chemical dispensing system as directed, skin contact with the concentrate is not expected to occur. If product is not used with a chemical dispensing system or if there is an accidental release: Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Gloves made from the following material(s) are recommended:

Neoprene

Nitrile Rubber

Polymer laminate

Respiratory protection

NOTE: When used with a chemical dispensing system as directed, respiratory protection is not required.

If product is not used with a chemical dispensing system or if there is an accidental release: An exposure assessment may be

needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure: Half facepiece or full facepiece air-purifying respirator suitable for particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| General Physical Form: | Liquid |
| Odor, Color, Grade: | Clear odorless liquid |
| Odor threshold | <i>No Data Available</i> |
| pH | 4 - 6 |
| Melting point | <i>Not Applicable</i> |
| Boiling Point | 212 °F |
| Flash Point | No flash point |
| Evaporation rate | <i>No Data Available</i> |
| Flammability (solid, gas) | Not Applicable |
| Flammable Limits(LEL) | <i>No Data Available</i> |
| Flammable Limits(UEL) | <i>No Data Available</i> |
| Vapor Pressure | <i>No Data Available</i> |
| Vapor Density | <i>No Data Available</i> |
| Density | <i>No Data Available</i> |
| Specific Gravity | 1.02 - 1.03 [<i>Ref Std: WATER=1</i>] |
| Solubility In Water | <i>No Data Available</i> |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Autoignition temperature | <i>No Data Available</i> |
| Decomposition temperature | <i>No Data Available</i> |
| Viscosity | <i>No Data Available</i> |
| Volatile Organic Compounds | < 0.1 % weight |
| VOC Less H2O & Exempt Solvents | 610 - 625 g/l |

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Substance

None known.

Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects**Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion:

Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen.

Target Organ Effects:**Single exposure may cause:**

Dermal Effects: Signs/symptoms may include changes in skin pigmentation and/or coloration.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Name | Route | Species | Value |
|----------------------------|--------------------------------|---------|---|
| Overall product | Inhalation-Dust/Mist(4 hr) | | No data available; calculated ATE > 12.5 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE > 5,000 mg/kg |
| ETHOXYLATED C9-11 ALCOHOLS | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| ETHOXYLATED C9-11 ALCOHOLS | Ingestion | Rat | LD50 1,378 mg/kg |
| HYDROGEN PEROXIDE | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| HYDROGEN PEROXIDE | Inhalation-Dust/Mist (4 hours) | Rat | LC50 2 mg/l |
| HYDROGEN PEROXIDE | Ingestion | Rat | LD50 1,193 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|----------------------------|---------|-----------|
| ETHOXYLATED C9-11 ALCOHOLS | Rabbit | Irritant |
| HYDROGEN PEROXIDE | Rabbit | Corrosive |
| Sodium Hydroxide | Rabbit | Corrosive |

Serious Eye Damage/Irritation

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

| | | |
|----------------------------|--------|-----------|
| ETHOXYLATED C9-11 ALCOHOLS | | Corrosive |
| HYDROGEN PEROXIDE | Rabbit | Corrosive |
| Sodium Hydroxide | Rabbit | Corrosive |

Skin Sensitization

| Name | Species | Value |
|----------------------------|------------|-----------------|
| ETHOXYLATED C9-11 ALCOHOLS | Guinea pig | Not sensitizing |
| HYDROGEN PEROXIDE | Guinea pig | Not sensitizing |
| Sodium Hydroxide | Human | Not sensitizing |

Respiratory Sensitization

| Name | Species | Value |
|------|---------|-------|
| | | |

Germ Cell Mutagenicity

| Name | Route | Value |
|----------------------------|----------|--|
| ETHOXYLATED C9-11 ALCOHOLS | In Vitro | Not mutagenic |
| HYDROGEN PEROXIDE | In vivo | Not mutagenic |
| HYDROGEN PEROXIDE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Sodium Hydroxide | In Vitro | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|-------------------|-----------|-------------------------|--|
| HYDROGEN PEROXIDE | Dermal | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| HYDROGEN PEROXIDE | Ingestion | Mouse | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|----------------------------|-----------|--|---------|---------------------|-------------------|
| ETHOXYLATED C9-11 ALCOHOLS | Dermal | Not toxic to female reproduction | Rat | NOAEL 250 mg/kg/day | 2 generation |
| ETHOXYLATED C9-11 ALCOHOLS | Dermal | Not toxic to development | Rat | NOAEL 250 mg/kg/day | 2 generation |
| ETHOXYLATED C9-11 ALCOHOLS | Dermal | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat | NOAEL 100 mg/kg/day | 2 generation |
| HYDROGEN PEROXIDE | Ingestion | Some positive female reproductive data exist, but the data are not sufficient for classification | Rat | LOAEL 5 mg/kg/day | 6 months |
| HYDROGEN PEROXIDE | Ingestion | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat | LOAEL 5 mg/kg/day | 6 months |
| HYDROGEN PEROXIDE | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification | Rat | LOAEL 5 mg/kg/day | during gestation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|----------------------------|------------|------------------------|--|---------------|---------------------|------------------------|
| ETHOXYLATED C9-11 ALCOHOLS | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Not available | NOAEL Not available | not available |
| HYDROGEN PEROXIDE | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | |
| HYDROGEN PEROXIDE | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for | Human | LOAEL Not available | poisoning and/or abuse |

| | | | | | | |
|------------------|------------|------------------------|--|-------|---------------------|--|
| Sodium Hydroxide | Inhalation | respiratory irritation | classification May cause respiratory irritation | Human | NOAEL Not available | |
|------------------|------------|------------------------|--|-------|---------------------|--|

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|----------------------------|-----------|-------------------------------|--|---------|----------------------|-------------------|
| ETHOXYLATED C9-11 ALCOHOLS | Dermal | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 125 mg/kg/day | 13 weeks |
| ETHOXYLATED C9-11 ALCOHOLS | Dermal | hematopoietic system | All data are negative | Rat | NOAEL 125 mg/kg/day | 13 weeks |
| HYDROGEN PEROXIDE | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOEL 0.005 mg/kg/day | 6 months |
| HYDROGEN PEROXIDE | Ingestion | liver kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL Not available | 35 weeks |

Aspiration Hazard

| Name | Value |
|------|-------|
| | |

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information**Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations**13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations. Dispose of waste product in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information**15.1. US Federal Regulations**

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - Yes Immediate Hazard - Yes Delayed Hazard - No

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 3 **Flammability:** 0 **Instability:** 1 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 3 **Flammability:** 0 **Physical Hazard:** 1 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

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