# SAFETY DATA SHEET

**Revision Date** 07-Dec-2020 **Version** 1

## 1. IDENTIFICATION

**Product identifier**
**Product Name** EVERCOAT MEKP LIQUID HARDENER

**Other means of identification**
**Product Code** 100602

**Recommended use of the chemical and restrictions on use**
**Recommended Use** Hardener. For professional use only.
**Uses advised against** Uses other than recommended use.

**Details of the supplier of the safety data sheet**
**Manufacturer Address**
ITW Evercoat
6600 Cornell Road
Cincinnati, Ohio 45242
Telephone: 513-489-7600

**May Also Be Distributed by:**
ITW Permatex Canada
101-2360 Bristol Circle
Oakville, ON Canada L6H 6M5
Telephone: (800) 924-6994

**24-hour emergency phone number**
CHEMTREC: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887

**E-mail address:** Info@evercoat.com

## 2. HAZARDS IDENTIFICATION

**Classification**

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

| | |
|---|---|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Inhalation (Vapors) | Category 4 |
| Skin corrosion/irritation | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1 |
| Reproductive toxicity | Category 2 |
| Flammable liquids | Category 4 |
| Organic peroxides | Type D |

**Label elements**

**Emergency Overview**

**Signal word**
**Danger**

Harmful if swallowed or if inhaled
Causes severe skin burns and eye damage
Suspected of damaging fertility or the unborn child
Toxic to aquatic life
Combustible liquid
Heating may cause a fire

**Appearance** Colorless **Physical state** Liquid **Odor** Slight

**Precautionary Statements - Prevention**
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Avoid release to the environment
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep/Store away from clothing/ combustible materials
Keep only in original container

**Precautionary Statements - Response**
Immediately call a POISON CENTER or doctor/physician

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 with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Do NOT induce vomiting

**Precautionary Statements - Storage**
Store locked up
Store away from other materials
Protect from sunlight
Store at temperatures not exceeding 25 °C / 77 °F

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**
Not applicable

**Other Information**
Toxic to aquatic life with long lasting effects.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|---|---|---|
| 2-Butanone, peroxide | 1338-23-4 | 15 - 40 |
| Trimethylpentanediol isobutyrate | 6846-50-0 | 10 - 30 |
| Hydrogen peroxide | 7722-84-1 | 3 - 7 |
| Butanone | 78-93-3 | 3 - 7 |

## 4. FIRST AID MEASURES

**Description of first aid measures**

**General advice** If symptoms persist, call a physician.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Skin contact** Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

**Inhalation** Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. Do NOT induce vomiting.

**Self-protection of the first aider** Use personal protective equipment as required.

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

**Symptoms** See section 2 for more information.

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

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**
Use, Use dry chemical, Carbon dioxide (CO2), Water spray (fog), Alcohol resistant foam

**Unsuitable extinguishing media**
High volume water jet

**Specific hazards arising from the chemical**
Keep product and empty container away from heat and sources of ignition. Risk of ignition. Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite. The product burns violently. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Cool closed containers exposed to fire with water spray.

**Explosion data**
**Sensitivity to Mechanical Impact** None.
**Sensitivity to Static Discharge** None.

**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.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions** Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

**Environmental precautions**

**Environmental precautions** See section 12 for additional ecological information. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product

from entering drains. Contact with incompatible substances can cause decomposition at or below SADT.

**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** Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

**Incompatible materials** Incompatible with strong acids and bases, Metals, Reducing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines** .

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| 2-Butanone, peroxide<br>1338-23-4 | Ceiling: 0.2 ppm | (vacated) Ceiling: 0.7 ppm<br>(vacated) Ceiling: 5 mg/m³ | Ceiling: 0.2 ppm<br>Ceiling: 1.5 mg/m³ |
| Hydrogen peroxide<br>7722-84-1 | TWA: 1 ppm | TWA: 1 ppm<br>TWA: 1.4 mg/m³<br>(vacated) TWA: 1 ppm<br>(vacated) TWA: 1.4 mg/m³ | IDLH: 75 ppm<br>TWA: 1 ppm<br>TWA: 1.4 mg/m³ |
| Butanone<br>78-93-3 | STEL: 300 ppm<br>TWA: 200 ppm | TWA: 200 ppm<br>TWA: 590 mg/m³<br>(vacated) TWA: 200 ppm<br>(vacated) TWA: 590 mg/m³<br>(vacated) STEL: 300 ppm<br>(vacated) STEL: 885 mg/m³ | IDLH: 3000 ppm<br>TWA: 200 ppm<br>TWA: 590 mg/m³<br>STEL: 300 ppm<br>STEL: 885 mg/m³ |

*NIOSH IDLH Immediately Dangerous to Life or Health*

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls**

**Engineering Controls** Showers
Eyewash stations
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.

| | |
|---|---|
| **Respiratory protection** | Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate. |
| **General Hygiene Considerations** | When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid |
| **Appearance** | Colorless |
| **Odor** | Slight |
| **Odor threshold** | No information available |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | No information available | |
| **Melting point / freezing point** | No information available | |
| **Boiling point / boiling range** | No information available | |
| **Flash point** | 76 °C / 169 °F | |
| **Evaporation rate** | No information available | |
| **Flammability (solid, gas)** | No information available | |
| **Flammability Limit in Air** | | |
| **Upper flammability limit:** | No information available | |
| **Lower flammability limit:** | No information available | |
| **Vapor pressure** | No information available | |
| **Vapor density** | 1 | |
| **Relative density** | No information available | |
| **Water solubility** | No information available | |
| **Solubility(ies)** | Soluble | |
| **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** | The substance or mixture is not classified as oxidizing. | |

**Other Information**

| | |
|---|---|
| **Softening point** | No information available |
| **Molecular weight** | No information available |
| **Density** | 1.1 g/cm3 |
| **Bulk density** | No information available |
| **SADT (self-accelerating decomposition temperature)** | 76 °C |

## 10. STABILITY AND REACTIVITY

**Reactivity**
Stable under normal conditions

**Chemical stability**
Stable under normal conditions

**Possibility of Hazardous Reactions**
Vapors can form explosive mixtures with air.

**Conditions to avoid**
Heat, flames and sparks. Incompatible materials.

**Incompatible materials**
Incompatible with strong acids and bases, Metals, Reducing agents.

**Hazardous Decomposition Products**
Thermal decomposition can lead to release of irritating and toxic gases and vapors

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Inhalation** Harmful by inhalation.

**Eye contact** Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

**Skin contact** May cause skin irritation and/or dermatitis.

**Ingestion** Harmful if swallowed.

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| 2-Butanone, peroxide<br>1338-23-4 | = 407 mg/kg ( Rat ) | - | = 200 ppm ( Rat ) 4 h |
| Trimethylpentanediol isobutyrate<br>6846-50-0 | > 3200 mg/kg ( Rat ) | - | > 5.3 mg/L ( Rat ) 6 h |
| Hydrogen peroxide<br>7722-84-1 | = 1518 mg/kg ( Rat ) | = 9200 mg/kg ( Rabbit ) | = 2000 mg/m³ ( Rat ) 4 h |
| Butanone<br>78-93-3 | = 2483 mg/kg ( Rat ) | = 5000 mg/kg ( Rabbit ) | = 11700 ppm ( Rat ) 4 h |

**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** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Hydrogen peroxide<br>7722-84-1 | A3 | Group 3 | - | - |

*ACGIH (American Conference of Governmental Industrial Hygienists)*
*A3 - Animal Carcinogen*
*IARC (International Agency for Research on Cancer)*
*Not classifiable as a human carcinogen*

**Chronic toxicity** May cause adverse liver effects.
**Target Organ Effects** Eyes, kidney, Liver, Respiratory system, Skin, Central nervous system.

**The following values are calculated based on chapter 3.1 of the GHS document** .
**ATEmix (oral)** 5857 mg/kg
**ATEmix (inhalation-dust/mist)** 19.5 mg/l
**ATEmix (inhalation-vapor)** 371 mg/l

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful to aquatic life with long lasting effects

**Persistence and degradability**
Not readily biodegradable.

**Bioaccumulation**
No information available.

**Mobility**
No information available.

| Chemical Name | Partition coefficient |
|---|---|
| Butanone<br>78-93-3 | 0.3 |

**Other adverse effects**
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Dispose of contents/containers in accordance with local regulations.

**Ozone depletion potential (ODP)** Not applicable.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

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

**Contaminated packaging** Do not reuse container.

**US EPA Waste Number** U160

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California Hazardous Waste Status |
|---|---|
| 2-Butanone, peroxide<br>1338-23-4 | Toxic<br>Ignitable |
| Hydrogen peroxide<br>7722-84-1 | Toxic<br>Corrosive<br>Ignitable<br>Reactive |
| Butanone<br>78-93-3 | Toxic mixture of acetone, methyl acetate, and methyl alcohol<br>Ignitable mixture of acetone, methyl acetate, and methyl alcohol |

## 14. TRANSPORT INFORMATION

Note: This information is not intended to convey all specific regulatory information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Organic Peroxides. Keep away from heat.

**DOT**

| | |
|---|---|
| **UN/ID No** | UN3105 |
| **Proper shipping name** | Organic peroxide type D, liquid (Methyl ethyl ketone peroxide(s)) |
| **Hazard Class** | 5.2 |
| **Packing Group** | Not applicable. |
| **Emergency Response Guide Number** | 145 |

**IATA**

| | |
|---|---|
| **UN/ID No** | UN3105 |
| **Proper shipping name** | Organic peroxide type D, liquid (Methyl ethyl ketone peroxide(s)) |
| **Hazard Class** | 5.2 |
| **Packing Group** | Not applicable. |
| **ERG Code** | 145 |

**IMDG**

| | |
|---|---|
| **UN/ID No** | UN3105 |
| **Proper shipping name** | Organic peroxide type D, liquid (Methyl ethyl ketone peroxide(s)) |
| **Hazard Class** | 5.2 |
| **Packing Group** | Not applicable. |
| **EmS-No** | F-J, S-R |
| **Marine pollutant** | No. |

## 15. REGULATORY INFORMATION

## International Inventories

| | |
|---|---|
| **TSCA** | Complies |
| **DSL/NDSL** | Complies |
| **EINECS/ELINCS** | Complies |
| **ENCS** | Complies |
| **IECSC** | Complies |
| **KECL** | Complies |
| **PICCS** | Complies |
| **AICS** | Complies |

**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
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances

## US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act 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

### SARA 311/312 Hazard Categories

| | |
|---|---|
| **Acute health hazard** | Yes |
| **Chronic Health Hazard** | Yes |
| **Fire hazard** | Yes |
| **Sudden release of pressure hazard** | No |
| **Reactive Hazard** | Yes |

### CWA (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

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---|---|---|---|
| 2-Butanone, peroxide<br>1338-23-4 | 10 lb | - | RQ 10 lb final RQ<br>RQ 4.54 kg final RQ |
| Hydrogen peroxide<br>7722-84-1 | - | 1000 lb | - |
| Butanone<br>78-93-3 | 5000 lb | - | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

## US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals

### U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| 2-Butanone, peroxide<br>1338-23-4 | X | X | X |
| Hydrogen peroxide<br>7722-84-1 | X | X | X |
| Butanone<br>78-93-3 | X | X | X |

### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

### WHMIS Hazard Class

D2A - Very toxic materials, D2B - Toxic materials, B3 - Combustible liquid

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NFPA** | **Health hazards** 2 | **Flammability** 2 | **Instability** 0 | - |
| **HMIS** | **Health hazards** 2 | **Flammability** 2 | **Physical hazards** 0 | **Personal protection** B |

NFPA (National Fire Protection Association)
HMIS (Hazardous Material Information System)

**Revision Date** 07-Dec-2020

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**End of Safety Data Sheet**