

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code 100603

Product Name EVERCOAT MEKP LIQUID HARDENER

Unique Formula Identifier (UFI) Code QVR2-001G-U00N-A4U6

Contains Hydrogen peroxide, 2-Butanone, peroxide, Trimethylpentanediol isobutyrate

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Hardener. For professional use only.

Uses advised against Uses other than recommended use.

1.3. Details of the supplier of the safety data sheet

Importer INDASA PT P.O. Box 3005 3801-101 Aveiro, Portugal Telephone: +(351) 234 303 600 For further information, please contact	Manufacturer ITW Evercoat 6600 Cornell Road Cincinnati, Ohio 45242 Telephone: 513-489-7600
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E-mail address: Info@evercoat.com

Non-Emergency Telephone Number +1 (513) 489-7600 or (800) 729-7600

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Reproductive toxicity	Category 2 - (H361)
Organic peroxides	Type D - (H242)

2.2. Label elements

Contains Hydrogen peroxide, 2-Butanone, peroxide, Trimethylpentanediol isobutyrate

**Signal word**

Danger

Hazard statements

Hazard statements

H302 - Harmful if swallowed
 H314 - Causes severe skin burns and eye damage
 H332 - Harmful if inhaled
 H361d - Suspected of damaging the unborn child
 H242 - Heating may cause a fire

Precautionary Statements - EU (§28, 1272/2008) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
 No smoking

P234 - Keep only in original packaging
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P310 - Immediately call a POISON CENTER or doctor
 P370 + P378 - In case of fire: Use water spray to extinguish
 P391 - Collect spillage
 P403 - Store in a well-ventilated place
 P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration No.	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
2-Butanone, peroxide 1338-23-4	15 - 40	01-211951469 1-43-0000	215-661-2	Org. Perox. D (H242)Acute Tox. 4 (H302)Acute Tox. 4 (H332)Skin Corr. 1B (H314)Eye Dam. 1 (H318)	-	-	-
Trimethylpentanediol	10 - 30	01-211945109	229-934-9	Repr. 2	-	-	-

isobutyrate 6846-50-0		3-47		(H361d)Aquatic Chronic 3 (H412)			
Hydrogen peroxide 7722-84-1	3 - 7	01-211948584 5-22	231-765-0	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Skin Corr. 1A (H314) Ox. Liq. 1 (H271)	Eye Dam. 1 :: 8%<=C<50% Eye Irrit. 2 :: 5%<=C<8% Ox. Liq. 1 :: C>=70% Ox. Liq. 2 :: 50%<=C<70% Skin Corr. 1A :: C>=70% Skin Corr. 1B :: 50%<=C<70% Skin Irrit. 2 :: 35%<=C<50% STOT SE 3 :: C>=35%	-	-
Butanone 78-93-3	3 - 7	01-211945729 0-43	201-159-0	Eye Irrit. 2 (H319) (EUH066) STOT SE 3 (H336) Flam. Liq. 2 (H225)	-	-	-

Full text of H- and EUH-phrases: see section 16Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
2-Butanone, peroxide 1338-23-4	407	4000	No data available	1.4416	No data available
Trimethylpentanediol isobutyrate 6846-50-0	3200	2000	No data available	No data available	No data available
Hydrogen peroxide 7722-84-1	1518	9200	2	No data available	No data available
Butanone 78-93-3	2483	5000	No data available	34.5018	No data available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures**General advice**

Show this safety data sheet to the doctor in attendance.

Inhalation

Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open

	while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.

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

Symptoms	May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
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5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	No information available.
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5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Avoid breathing vapors or mists. Use personal protective equipment as required.
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Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. 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	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling Avoid contact with skin, eyes or clothing. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

7.3. Specific end use(s)**Identified uses**

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
2-Butanone, peroxide 1338-23-4	-	-	-	-	STEL: 0.2 ppm STEL: 1.5 mg/m ³
Hydrogen peroxide 7722-84-1	-	TWA: 1 ppm TWA: 1.4 mg/m ³ STEL 2 ppm STEL 2.8 mg/m ³	TWA: 1 ppm TWA: 1.4 mg/m ³	TWA: 1.5 mg/m ³	TWA: 1 ppm TWA: 1.4 mg/m ³ STEL: 2 ppm STEL: 2.8 mg/m ³
Butanone 78-93-3	TWA 200 ppm TWA 600 mg/m ³ STEL 300 ppm STEL 900 mg/m ³	TWA: 100 ppm TWA: 295 mg/m ³ STEL 200 ppm STEL 590 mg/m ³ H*	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	STEL: 885 mg/m ³ TWA: 590 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
2-Butanone, peroxide 1338-23-4	-	-	Ceiling: 1 mg/m ³	STEL: 0.2 ppm STEL: 1.5 mg/m ³	STEL: 0.2 ppm STEL: 1.5 mg/m ³
Hydrogen peroxide 7722-84-1	-	TWA: 1 mg/m ³ Ceiling: 2 mg/m ³	TWA: 1 ppm TWA: 1.4 mg/m ³	TWA: 1 ppm TWA: 1.4 mg/m ³ STEL: 2 ppm STEL: 3 mg/m ³	TWA: 1 ppm TWA: 1.4 mg/m ³ STEL: 3 ppm STEL: 4.2 mg/m ³
Butanone 78-93-3	STEL: 300 ppm STEL: 900 mg/m ³ TWA: 200 ppm TWA: 600 mg/m ³	TWA: 600 mg/m ³ Ceiling: 900 mg/m ³	TWA: 50 ppm TWA: 145 mg/m ³ H*	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 20 ppm TWA: 60 mg/m ³ STEL: 100 ppm STEL: 300 mg/m ³ iho*

Chemical name	France	Germany	Germany MAK	Greece	Hungary
2-Butanone, peroxide 1338-23-4	STEL: 0.2 ppm STEL: 1.5 mg/m ³	-	-	TWA: 0.7 ppm TWA: 5 mg/m ³ STEL: 0.7 ppm STEL: 5 mg/m ³	-
Hydrogen peroxide 7722-84-1	TWA: 1 ppm TWA: 1.5 mg/m ³	-	TWA: 0.5 ppm TWA: 0.71 mg/m ³ Ceiling / Peak: 0.5 ppm Ceiling / Peak: 0.71 mg/m ³	TWA: 1 ppm TWA: 1.4 mg/m ³ STEL: 3 mg/m ³	-
Butanone 78-93-3	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³ *	TWA: 200 ppm TWA: 600 mg/m ³ H*	TWA: 200 ppm TWA: 600 mg/m ³ Ceiling / Peak: 200 ppm Ceiling / Peak: 600 mg/m ³ Skin	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 600 mg/m ³ STEL: 900 mg/m ³ b*
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
2-Butanone, peroxide 1338-23-4	STEL: 0.2 ppm STEL: 1.5 mg/m ³	-	Ceiling: 0.2 ppm Ceiling: 1.44 mg/m ³	-	Ceiling: 0.2 ppm Ceiling: 1.5 mg/m ³
Hydrogen peroxide 7722-84-1	TWA: 1 ppm TWA: 1.5 mg/m ³ STEL: 3 mg/m ³ STEL: 2 ppm	-	TWA: 1 ppm TWA: 1.4 mg/m ³	-	TWA: 1 ppm TWA: 1.4 mg/m ³ Ceiling: 2 ppm Ceiling: 3 mg/m ³
Butanone 78-93-3	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³ Sk*	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 200 ppm TWA: 590 mg/m ³ STEL: 300 ppm STEL: 885 mg/m ³	TWA: 67 ppm TWA: 200 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
2-Butanone, peroxide 1338-23-4	-	-	-	Ceiling: 1 mg/m ³	-
Hydrogen peroxide 7722-84-1	-	-	-	TWA: 1 ppm TWA: 1.4 mg/m ³ STEL: 3 ppm STEL: 2.8 mg/m ³	STEL: 0.8 mg/m ³ TWA: 0.4 mg/m ³
Butanone 78-93-3	STEL: 300 ppm STEL: 900 mg/m ³ TWA: 200 ppm TWA: 600 mg/m ³	STEL: 300 ppm STEL: 900 mg/m ³ TWA: 200 ppm TWA: 600 mg/m ³	TWA: 590 mg/m ³ STEL: 900 mg/m ³ H*	TWA: 75 ppm TWA: 220 mg/m ³ STEL: 112.5 ppm STEL: 275 mg/m ³	STEL: 900 mg/m ³ TWA: 450 mg/m ³
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
2-Butanone, peroxide 1338-23-4	Ceiling: 0.2 ppm	-	-	-	STEL: 0.2 ppm STEL: 1.5 mg/m ³
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	-	TWA: 1 ppm TWA: 1.4 mg/m ³	-	TWA: 1 ppm TWA: 1.4 mg/m ³
Butanone 78-93-3	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ 300: STEL ppm 900: STEL mg/m ³ K*	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³
Chemical name	Sweden		Switzerland		United Kingdom
2-Butanone, peroxide 1338-23-4	Bindande KGV: 0.2 ppm Bindande KGV: 1.5 mg/m ³		TWA: 0.2 ppm TWA: 1.5 mg/m ³		STEL: 0.2 ppm STEL: 1.5 mg/m ³
Hydrogen peroxide 7722-84-1	NGV: 1 ppm NGV: 1.4 mg/m ³ Bindande KGV: 2 ppm Bindande KGV: 3 mg/m ³		TWA: 1 ppm TWA: 1.4 mg/m ³ STEL: 2 ppm STEL: 2.8 mg/m ³		TWA: 1 ppm TWA: 1.4 mg/m ³ STEL: 2 ppm STEL: 2.8 mg/m ³
Butanone 78-93-3	NGV: 50 ppm NGV: 150 mg/m ³ Bindande KGV: 300 ppm Bindande KGV: 900 mg/m ³		TWA: 200 ppm TWA: 590 mg/m ³ STEL: 200 ppm STEL: 590 mg/m ³ H*		TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 899 mg/m ³ Sk*

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Butanone 78-93-3	-	-	-	2.6 mg/g Creatinine - urine (Ethyl methyl ketone) - at the end of the work shift	-
Chemical name	Denmark	Finland	France	Germany	Germany MAK
Butanone 78-93-3	-	-	-	2 mg/L (urine - 2-Butanone end of shift) 2 mg/L - BAT (end of exposure or end of shift) urine	2 mg/L
Chemical name	Hungary	Ireland	Italy	Italy REL	
Butanone 78-93-3	-	70 µmol/L (urine - Butan-2-one post shift)	-	2 mg/L - urine (MEK) - end of shift	
Chemical name	Latvia	Luxembourg	Romania	Slovakia	
Butanone 78-93-3	-	-	2 mg/L - urine (Methylethylketone) - end of shift	-	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
Butanone 78-93-3	2 mg/L - urine (2-Butanone) - at the end of the work shift	2	2	70	

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls**Personal protective equipment**

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state Liquid
Appearance Colorless
Color No information available
Odor Slight
Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known

Boiling point / boiling range	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Flash point	76 °C	
Autoignition temperature	No data available	None known
Decomposition temperature	60 °C	None known
pH	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No Data Available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	Soluble	
Partition coefficient	No Data Available	None known
Vapor pressure	No Data Available	None known
Relative density	No data available	None known
Bulk density	No data available	
Density	1.1 g/cm3	
Vapor density	1	
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Not applicable 60 °C

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Information on likely routes of exposure****Product Information**

Inhalation	May cause irritation of respiratory tract. Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes. Coughing and/ or wheezing.

Numerical measures of toxicity**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	706.30 mg/kg
ATEmix (dermal)	6,478.90 mg/kg
ATEmix (inhalation-dust/mist)	2.00 mg/l
ATEmix (inhalation-vapor)	228.00 mg/l

Unknown acute toxicity

- 30 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 95 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-Butanone, peroxide	= 407 mg/kg (Rat)	= 4000 mg/kg (Rabbit)	= 200 ppm (Rat) 4 h
Trimethylpentanediol isobutyrate	> 3200 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.3 mg/L (Rat) 6 h
Hydrogen peroxide	= 1518 mg/kg (Rat)	= 9200 mg/kg (Rabbit)	= 2000 mg/m ³ (Rat) 4 h
Butanone	= 2483 mg/kg (Rat)	= 5000 mg/kg (Rabbit)	= 11700 ppm (Rat) 4 h

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

Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin 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.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2-Butanone, peroxide	-	44.2: 96 h <i>Poecilia reticulata</i> mg/L LC50 semi-static	-	-
Trimethylpentanediol isobutyrate	-	1.55: 96 h <i>Pimephales promelas</i> mg/L LC50 static	-	1.46: 48 h <i>Daphnia magna</i> mg/L EC50
Hydrogen peroxide	-	10.0 - 32.0: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 18 - 56: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 16.4: 96 h <i>Pimephales promelas</i> mg/L LC50	-	18 - 32: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Butanone	-	3130 - 3320: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through	-	4025 - 6440: 48 h <i>Daphnia magna</i> mg/L EC50 Static 5091: 48 h <i>Daphnia magna</i> mg/L EC50 520: 48 h <i>Daphnia magna</i> mg/L EC50

12.2. Persistence and degradability

Persistence and degradability Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
Butanone	0.3

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

Chemical name	PBT and vPvB assessment
2-Butanone, peroxide	The substance is not PBT / vPvB
Trimethylpentanediol isobutyrate	The substance is not PBT / vPvB
Hydrogen peroxide	The substance is not PBT / vPvB PBT assessment does not apply
Butanone	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 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.

IATA

14.1 UN number or ID number UN3105
 14.2 Proper shipping name Organic peroxide type D, liquid (Methyl ethyl ketone peroxide(s))
 14.3 Transport hazard class(es) 5.2
 14.4 Packing group -
 14.5 Environmental hazard No
 14.6 Special precautions for user

IMDG

14.1 UN number or ID number UN3105
 14.2 Proper shipping name Organic peroxide type D, liquid (Methyl ethyl ketone peroxide(s))
 14.3 Transport hazard class(es) 5.2
 14.4 Packing Group -
 14.5 Environmental hazard No
 14.6 Special precautions for user
 EmS-No F-J, S-R
 14.7 Maritime transport in bulk according to IMO instruments

RID

14.1 UN/ID No UN3105

14.2 Proper shipping name	Organic peroxide type D, liquid (Methyl ethyl ketone peroxide(s))
14.3 Transport hazard class(es)	5.2
14.4 Packing Group	-
14.5 Environmental hazard	No
14.6 Special precautions for user	

ADR

14.1 UN number or ID number	UN3105
14.2 Proper shipping name	Organic peroxide type D, liquid (Methyl ethyl ketone peroxide(s))
14.3 Transport hazard class(es)	5.2
14.4 Packing Group	-
14.5 Environmental hazard	No
14.6 Special precautions for user	
Classification code	P1
Tunnel restriction code	D

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**National regulations****France****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
Butanone 78-93-3	RG 84

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Hydrogen peroxide - 7722-84-1	75.	-
Butanone - 78-93-3	75.	-

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

P6b - SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Chemical name	Plant protection products directive (91/414/EEC)
Hydrogen peroxide - 7722-84-1	Plant protection agent

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

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

- EUH066 - Repeated exposure may cause skin dryness or cracking
- H225 - Highly flammable liquid and vapor
- H242 - Heating may cause a fire
- H271 - May cause fire or explosion; strong oxidizer
- H302 - Harmful if swallowed
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H336 - May cause drowsiness or dizziness
- H361d - Suspected of damaging the unborn child
- H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method

Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

Revision Date 05-Jan-2022

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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End of Safety Data Sheet