

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

### 1.1. Product identifier

**Product Code** 100602\_100603\_100636

**Product Name** LIQUID HARDENER MEKP TUBES

#### Other means of identification

**Unique Formula Identifier (UFI)** P3X2-V04Q-H00T-NYD4 & QVR2-001G-U00N-A4U6

**Pure substance/mixture** Mixture  
Contains 2-Butanone, peroxide; Trimethylpentaedoil isobutyrate; Butanone; Hydrogen Peroxide

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

**Recommended Use** Hardener.

**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

**Manufacturer**  
ITW Evercoat  
6600 Cornell Road  
Cincinnati, Ohio 45242

**Only Representative (OR)**  
ITW Performance Polymers  
Bay 150  
Shannon Industrial Estate  
Co. Clare  
Ireland  
V14 DF82  
353(61)771500  
353(61)471285  
customerservice.shannon@itwpp.com

For further information, please contact

**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 or 1-703-527-3887.

24-hour emergency phone number - §45 - (EC)1272/2008	
<b>Europe</b>	<b>112</b>
<b>Austria</b>	01 406 43 43
<b>Belgium</b>	070 245 245
<b>Denmark</b>	+ 45 8212 1212
<b>Finland</b>	0800 147 111/ 09 471 977
<b>France</b>	+33 (0)1 45 42 59 59
<b>Germany</b>	+49 228 192 40
<b>Ireland</b>	+353 (0)1 809 2566
<b>Italy</b>	0382-24444
<b>Netherlands</b>	+31 (0)88 755 8000
<b>Norway</b>	22 59 13 00

Poland	112
Portugal	+351 800 250 250
Slovenia	112
Spain	+34 91 562 04 20
Sweden	112
Switzerland	145
United Kingdom	111
Bulgaria	+359 2 9154 233
Croatia	+3851 2348 342
Cyprus	1401
Czech Republic	+420 224 919 293/ +420 224 915 402
Estonia	16662/ (+372) 7943 794
Greece	(003) 2107793777
Hungary	+36 80 201 199
Iceland	543 2222
Latvia	+371 67042473
Liechtenstein	01 406 43 43
Lithuania	+370 (85) 2362052
Luxembourg	(+352) 8002 5500
Romania	+40213183606
Slovakia	+421 2 5477 4166
Malta	112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

<b>Self-reactive substances and mixtures</b>	Type D - (H242)
<b>Acute toxicity - Oral</b>	Category 4 - (H302)
<b>Acute toxicity - Inhalation (Dusts/Mists)</b>	Category 4 - (H332)
<b>Skin irritation</b>	Category 1 Sub-category B - (H314)
<b>Serious eye damage</b>	Category 1 - (H318)
<b>Reproductive toxicity</b>	Category 2 - (H361d)

### 2.2. Label elements

Contains 2-Butanone, peroxide; Trimethylpentaedoil isobutyrate; Butanone; Hydrogen Peroxide



#### Signal word

Danger

#### Hazard statements

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

**Precautionary Statements - EU (§28, 1272/2008)**

P201 - Obtain special instructions before use.  
 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 and spray.  
 P280 - Wear protective gloves, protective clothing, eye protection and face protection.  
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308 + P313 - IF exposed or concerned: Get medical advice/attention.  
 P310 - Immediately call a POISON CENTER or doctor.  
 P315 - Get immediate medical advice/attention.  
 P321 - Specific treatment (see supplemental first aid instructions on this label).  
 P370 + P378 - In case of fire: Use CO2, dry chemical, or foam to extinguish.  
 P405 - Store locked up.  
 P411 + P235 - Store at temperatures not exceeding 38 °C/ 100 °F. Keep cool.  
 P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

**2.3. Other hazards**

**Other hazards** Toxic to aquatic life. Combustible liquid.  
**PBT & vPvB** The product does not contain any substance(s) classified as PBT or vPvB.  
**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

Not applicable

**3.2. Mixtures**

Chemical name	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Dimethyl Phthalate 131-11-3	25 - <50%	-	205-011-6	[C]	-	-	-	-
2-Butanone, peroxide 1338-23-4	25 - <50%	-	215-661-2	No data available	-	-	-	-
Trimethylpentaedoil isobutyrate 6846-50-0	20 - <25%	-	229-934-9	Repr. 2; H361dAquatic Chronic 3; H412	-	-	-	-
Butanone 78-93-3	2.5 - <5%	-	201-159-0 (606-002-00-3)	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336) (EUH066)	-	-	-	-
Hydrogen Peroxide 7722-84-1	1 - <2.5%	-	231-765-0 (008-003-00-9)	Ox. Liq. 1 (H271) Acute Tox. 4 (H302) Skin Corr. 1A (H314) Acute Tox. 4 (H332)	Eye Dam. 1 :: 8%<=C<50% Eye Irrit. 2 :: 5%<=C<8% Ox. Liq. 1 :: C>=70% Ox. Liq. 2 ::	-	-	B

					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%			
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Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes

[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

Note B - Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

**Full text of H- and EUH-phrases: see section 16**

Acute 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 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Dimethyl Phthalate 131-11-3	6800	12012	No data available	No data available	No data available
2-Butanone, peroxide 1338-23-4	407	4000	No data available	1.7196	No data available
Trimethylpentaedoil isobutyrate 6846-50-0	2000	2002	No data available	No data available	No data available
Butanone 78-93-3	2483	5000	No data available	34.5018	No data available
Hydrogen Peroxide 7722-84-1	1518	9200	2	No data available	No data available

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

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Ingestion Rinse mouth.

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

**Symptoms** Prolonged contact may cause redness and irritation.

**Effects of Exposure** No information available.

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

**Note to physicians** Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical** No information available.

**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.

**SECTION 6: Accidental release measures**

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

**Personal precautions** Ensure adequate ventilation.

**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** Ensure adequate ventilation.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

**Storage class (TRGS 510)** Not determined.

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

**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
Dimethyl Phthalate 131-11-3	-	-	TWA: 5 mg/m <sup>3</sup> ;	TWA: 5.0 mg/m <sup>3</sup> ;	TWA-GVI: 5 mg/m <sup>3</sup> ; STEL-KGVI: 10 mg/m <sup>3</sup> ;
2-Butanone, peroxide 1338-23-4	-	-	TWA: 0.2 ppm; TWA: 1.5 mg/m <sup>3</sup> ;	-	STEL-KGVI: 0.2 ppm; STEL-KGVI: 1.5 mg/m <sup>3</sup> ;
Butanone 78-93-3	TWA: 200 ppm; TWA: 600 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 900 mg/m <sup>3</sup> ;	TWA-TMW: 100 ppm; TWA-TMW: 295 mg/m <sup>3</sup> ; STEL-KZGW: 200 ppm (4 X 30 min); STEL-KZGW: 590 mg/m <sup>3</sup> (4 X 30 min); Sk	TWA: 200 ppm; TWA: 600 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 900 mg/m <sup>3</sup> ;	TWA: 590 mg/m <sup>3</sup> ; STEL: 885 mg/m <sup>3</sup> ;	TWA-GVI: 200 ppm; TWA-GVI: 600 mg/m <sup>3</sup> ; STEL-KGVI: 300 ppm; STEL-KGVI: 900 mg/m <sup>3</sup> ;
Hydrogen Peroxide 7722-84-1	-	TWA-TMW: 1 ppm; TWA-TMW: 1.4 mg/m <sup>3</sup> ; STEL-KZGW: 2 ppm (8 X 5 min); STEL-KZGW: 2.8 mg/m <sup>3</sup> (8 X 5 min);	TWA: 1 ppm; TWA: 1.4 mg/m <sup>3</sup> ;	TWA: 1.5 mg/m <sup>3</sup> ;	TWA-GVI: 1 ppm; TWA-GVI: 1.4 mg/m <sup>3</sup> ; STEL-KGVI: 2 ppm; STEL-KGVI: 2.8 mg/m <sup>3</sup> ;
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Dimethyl Phthalate 131-11-3	-	-	TWA: 3 mg/m <sup>3</sup> ; STEL: 6 mg/m <sup>3</sup> ;	TWA: 3 mg/m <sup>3</sup> ; STEL: 5 mg/m <sup>3</sup> ;	TWA: 5 mg/m <sup>3</sup> ; STEL: 10 mg/m <sup>3</sup> ;
2-Butanone, peroxide 1338-23-4	-	-	Ceiling: 1 mg/m <sup>3</sup> ;	STEL: 0.2 ppm; STEL: 1.5 mg/m <sup>3</sup> ;	STEL: 0.2 ppm; STEL: 1.5 mg/m <sup>3</sup> ;
Butanone 78-93-3	TWA: 200 ppm; TWA: 600 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 900 mg/m <sup>3</sup> ;	TWA: 600 mg/m <sup>3</sup> ; Ceiling: 900 mg/m <sup>3</sup> ;	TWA: 50 ppm; TWA: 145 mg/m <sup>3</sup> ; STEL: 900 mg/m <sup>3</sup> ; STEL: 300 ppm; pSk	TWA: 200 ppm; TWA: 600 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 900 mg/m <sup>3</sup> ;	TWA: 20 ppm; TWA: 60 mg/m <sup>3</sup> ; STEL: 100 ppm; STEL: 300 mg/m <sup>3</sup> ; pSk
Hydrogen Peroxide 7722-84-1	-	TWA: 1 mg/m <sup>3</sup> ; Ceiling: 2 mg/m <sup>3</sup> ;	TWA: 1 ppm; TWA: 1.4 mg/m <sup>3</sup> ; STEL: 2 ppm; STEL: 2.8 mg/m <sup>3</sup> ;	TWA: 1 ppm; TWA: 1.4 mg/m <sup>3</sup> ; STEL: 2 ppm; STEL: 3 mg/m <sup>3</sup> ;	TWA: 1 ppm; TWA: 1.4 mg/m <sup>3</sup> ; STEL: 3 ppm; STEL: 4.2 mg/m <sup>3</sup> ;
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Dimethyl Phthalate 131-11-3	TWA-VME: 5 mg/m <sup>3</sup> ;	-	-	TWA: 5 mg/m <sup>3</sup> ; STEL: 10 mg/m <sup>3</sup> ;	-
2-Butanone, peroxide 1338-23-4	STEL-VLCT: 0.2 ppm; STEL-VLCT: 1.5	-	-	TWA: 0.7 ppm; TWA: 5 mg/m <sup>3</sup> ; STEL: 0.7 ppm;	-

	mg/m <sup>3</sup> ;			STEL: 5 mg/m <sup>3</sup> ;	
Butanone 78-93-3	TWA-VME (restrictif): 200 ppm; TWA-VME (restrictif): 600 mg/m <sup>3</sup> ; STEL-VLCT (restrictif): 300 ppm; STEL-VLCT (restrictif): 900 mg/m <sup>3</sup> ; dSk	TWA-AGW; 200 ppm (exposure factor 1); TWA-AGW; 600 mg/m <sup>3</sup> (exposure factor 1); Sk	TWA-MAK: 200 ppm; I(1); TWA-MAK: 600 mg/m <sup>3</sup> ; I(1); Peak: 200 ppm; Peak: 600 mg/m <sup>3</sup> ; Sk	TWA: 200 ppm; TWA: 600 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 900 mg/m <sup>3</sup> ;	TWA-AK: 600 mg/m <sup>3</sup> ; TWA-AK: 200 ppm; STEL-CK: 900 mg/m <sup>3</sup> ; STEL-CK: 300 ppm; pSk
Hydrogen Peroxide 7722-84-1	TWA-VME: 1 ppm; TWA-VME: 1.5 mg/m <sup>3</sup> ;	TWA-AGW; 0.5 ppm (); TWA-AGW; 0.71 mg/m <sup>3</sup> (exposure factor 1);	TWA-MAK: 0.5 ppm; I(1); TWA-MAK: 0.71 mg/m <sup>3</sup> ; I(1); Peak: 0.5 ppm; Peak: 0.71 mg/m <sup>3</sup> ;	TWA: 1 ppm; TWA: 1.4 mg/m <sup>3</sup> ; STEL: 3 mg/m <sup>3</sup> ;	-
<b>Chemical name</b>	<b>Ireland</b>	<b>Italy MDLPS</b>	<b>Italy AIDII</b>	<b>Latvia</b>	<b>Lithuania</b>
Dimethyl Phthalate 131-11-3	TWA: 5 mg/m <sup>3</sup> ; STEL: 10 mg/m <sup>3</sup> ;	-	TWA: 5 mg/m <sup>3</sup> ;	TWA: 0.3 mg/m <sup>3</sup> ;	TWA-IPRD: 3 mg/m <sup>3</sup> ; STEL-TPRD: 5 mg/m <sup>3</sup> ;
2-Butanone, peroxide 1338-23-4	STEL: 0.2 ppm; STEL: 1.5 mg/m <sup>3</sup> ;	-	Ceiling: 0.2 ppm; Ceiling: 1.44 mg/m <sup>3</sup> ;	-	Ceiling (NRD): 0.2 ppm; Ceiling (NRD): 1.5 mg/m <sup>3</sup> ;
Butanone 78-93-3	TWA: 200 ppm; TWA: 600 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 900 mg/m <sup>3</sup> ; pSk	TWA: 200 ppm; TWA: 600 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 900 mg/m <sup>3</sup> ;	TWA: 200 ppm; TWA: 590 mg/m <sup>3</sup> ; STEL (REL): 300 ppm; STEL (REL): 885 mg/m <sup>3</sup> ;	TWA: 67 ppm; TWA: 200 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 900 mg/m <sup>3</sup> ;	-
Hydrogen Peroxide 7722-84-1	TWA: 1 ppm; TWA: 1.5 mg/m <sup>3</sup> ; STEL: 3 mg/m <sup>3</sup> ; STEL: 2 ppm;	-	TWA: 1 ppm; TWA: 1.4 mg/m <sup>3</sup> ;	-	TWA-IPRD: 1 ppm; TWA-IPRD: 1.4 mg/m <sup>3</sup> ; Ceiling (NRD): 2 ppm; Ceiling (NRD): 3 mg/m <sup>3</sup> ;
<b>Chemical name</b>	<b>Luxembourg</b>	<b>Malta</b>	<b>Netherlands</b>	<b>Norway</b>	<b>Poland</b>
Dimethyl Phthalate 131-11-3	-	-	-	TWA: 3 mg/m <sup>3</sup> ; STEL: 6 mg/m <sup>3</sup> (value calculated);	TWA-NDS: 5 mg/m <sup>3</sup> ; inhalable fraction
2-Butanone, peroxide 1338-23-4	-	-	-	Ceiling: 1 mg/m <sup>3</sup> ;	-
Butanone 78-93-3	TWA: 200 ppm; TWA: 600 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 900 mg/m <sup>3</sup> ;	TWA: 200 ppm; TWA: 600 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 900 mg/m <sup>3</sup> ;	TWA: 197 ppm; TWA: 590 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 900 mg/m <sup>3</sup> ; Sk	TWA: 75 ppm; TWA: 220 mg/m <sup>3</sup> ; STEL: 112.5 ppm (value calculated); STEL: 275 mg/m <sup>3</sup> (value calculated);	TWA-NDS: 450 mg/m <sup>3</sup> ; STEL-NDSch: 900 mg/m <sup>3</sup> ; Sk
Hydrogen Peroxide 7722-84-1	-	-	-	TWA: 1 ppm; TWA: 1.4 mg/m <sup>3</sup> ; STEL: 3 ppm (value calculated); STEL: 2.8 mg/m <sup>3</sup> (value calculated);	TWA-NDS: 0.4 mg/m <sup>3</sup> ; STEL-NDSch: 0.8 mg/m <sup>3</sup> ;

Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Dimethyl Phthalate 131-11-3	TWA (VLE-MP): 5 mg/m <sup>3</sup> ;	-	-	-	TWA-(VLA-ED): 5 mg/m <sup>3</sup> ;
2-Butanone, peroxide 1338-23-4	Ceiling (VLE-CM): 0.2 ppm;	-	-	-	STEL (VLA-EC): 0.2 ppm; STEL (VLA-EC): 1.5 mg/m <sup>3</sup> ;
Butanone 78-93-3	TWA (VLE-MP): 200 ppm; TWA (VLE-MP): 600 mg/m <sup>3</sup> ; STEL (VLE-CD): 300 ppm; STEL (VLE-CD): 900 mg/m <sup>3</sup> ;	TWA: 200 ppm; TWA: 600 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 900 mg/m <sup>3</sup> ;	TWA: 200 ppm; TWA: 600 mg/m <sup>3</sup> ; Ceiling: 900 mg/m <sup>3</sup> ;	TWA: 200 ppm; TWA: 600 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 900 mg/m <sup>3</sup> ; pSk	TWA-(VLA-ED): 200 ppm; TWA-(VLA-ED): 600 mg/m <sup>3</sup> ; STEL (VLA-EC): 300 ppm; STEL (VLA-EC): 900 mg/m <sup>3</sup> ;
Hydrogen Peroxide 7722-84-1	TWA (VLE-MP): 1 ppm;	-	TWA: 1 ppm; TWA: 1.4 mg/m <sup>3</sup> ; Ceiling: 2.8 mg/m <sup>3</sup> ;	-	TWA-(VLA-ED): 1 ppm; TWA-(VLA-ED): 1.4 mg/m <sup>3</sup> ;
Chemical name	Sweden	Switzerland	United Kingdom		
Dimethyl Phthalate 131-11-3	TLV-NGV: 3 mg/m <sup>3</sup> ; STEL (Vägledande KGV): 5 mg/m <sup>3</sup> ;	TWA-MAK: 5 mg/m <sup>3</sup> ; inhalable dust	TWA: 5 mg/m <sup>3</sup> ; STEL: 10 mg/m <sup>3</sup> ;		
2-Butanone, peroxide 1338-23-4	STEL (Bindande KGV): 0.2 ppm; STEL (Bindande KGV): 1.5 mg/m <sup>3</sup> ;	STEL-KZGW: 0.2 ppm; STEL-KZGW: 1.5 mg/m <sup>3</sup> ;	STEL: 0.2 ppm; STEL: 1.5 mg/m <sup>3</sup> ;		
Butanone 78-93-3	TLV-NGV: 50 ppm; TLV-NGV: 150 mg/m <sup>3</sup> ; STEL (Bindande KGV): 300 ppm; STEL (Bindande KGV): 900 mg/m <sup>3</sup> ;	TWA-MAK: 200 ppm; TWA-MAK: 590 mg/m <sup>3</sup> ; STEL-KZGW: 200 ppm; STEL-KZGW: 590 mg/m <sup>3</sup> ; Sk	TWA: 200 ppm; TWA: 600 mg/m <sup>3</sup> ; STEL: 300 ppm; STEL: 899 mg/m <sup>3</sup> ; pSk		
Hydrogen Peroxide 7722-84-1	TLV-NGV: 1 ppm; TLV-NGV: 1.4 mg/m <sup>3</sup> ; STEL (Bindande KGV): 2 ppm; STEL (Bindande KGV): 3 mg/m <sup>3</sup> ;	TWA-MAK: 1 ppm; TWA-MAK: 1.4 mg/m <sup>3</sup> ; STEL-KZGW: 2 ppm; STEL-KZGW: 2.8 mg/m <sup>3</sup> ;	TWA: 1 ppm; TWA: 1.4 mg/m <sup>3</sup> ; STEL: 2 ppm; STEL: 2.8 mg/m <sup>3</sup> ;		

**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 DFG	Germany TRGS
Butanone 78-93-3	-	-	- urine (Methylethylketone) - end of shift	2 mg/L (urine - 2-Butanone end of exposure or shift) 2 mg/L - BAT (end of exposure or end of shift) urine	2 mg/L (urine - 2-Butanone end of exposure or shift)
Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII	
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 (2-Butanone) - at the end of exposure or shift	-	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 mg/L (urine - Methyl ethyl ketone end of shift)	2 mg/L (urine - 2-Butanone end of shift, before subsequent shift or 16 hour) 27.7 µmol/L (urine - 2-Butanone end of shift, before subsequent shift or 16 hour)	70 µmol/L - urine (Butan-2-one) - post shift
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## 8.2. Exposure controls

### Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
2-Butanone, peroxide 1338-23-4	-	1.43 mg/kg bw/day [4] [6]	2.52 mg/m <sup>3</sup> [4] [6] 7.55 mg/m <sup>3</sup> [4] [7]
Trimethylpentaedoil isobutyrate 6846-50-0	-	5 mg/kg bw/day [4] [6]	17.62 mg/m <sup>3</sup> [4] [6]
Butanone 78-93-3	-	1161 mg/kg bw/day [4] [6]	600 mg/m <sup>3</sup> [4] [6] 900 mg/m <sup>3</sup> [4] [7]
Hydrogen Peroxide 7722-84-1	-	-	1.4 mg/m <sup>3</sup> [5] [6] 3 mg/m <sup>3</sup> [5] [7]

#### Notes

[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.
[7]	Short term.

### Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Dimethyl Phthalate 131-11-3	9.4 mg/kg bw/day [4] [6]	-	-
2-Butanone, peroxide 1338-23-4	0.26 mg/kg bw/day [4] [6]	-	0.44 mg/m <sup>3</sup> [4] [6]
Trimethylpentaedoil isobutyrate 6846-50-0	5 mg/kg bw/day [4] [6]	-	4.35 mg/m <sup>3</sup> [4] [6]
Butanone 78-93-3	31 mg/kg bw/day [4] [6]	-	106 mg/m <sup>3</sup> [4] [6] 450 mg/m <sup>3</sup> [4] [7]
Hydrogen Peroxide 7722-84-1	-	-	0.21 mg/m <sup>3</sup> [5] [6] 1.93 mg/m <sup>3</sup> [5] [7]

#### Notes

[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.
[7]	Short term.

### Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
2-Butanone, peroxide 1338-23-4	0.0056 mg/L	0.056 mg/L	0.00056 mg/L	-	-

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Trimethylpentaedoil isobutyrate 6846-50-0	83.3 mg/kg food 0.014 mg/L	-	83.3 mg/kg food 0.0014 mg/L	-	-
Hydrogen Peroxide 7722-84-1	0.0126 mg/L	0.0138 mg/L	0.0126 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
2-Butanone, peroxide 1338-23-4	0.0876 mg/kg sediment dw	0.00876 mg/kg sediment dw	1.2 mg/L	0.0142 mg/kg soil dw	-
Trimethylpentaedoil isobutyrate 6846-50-0	5.29 mg/kg sediment dw	0.529 mg/kg sediment dw	3 mg/L	1.05 mg/kg soil dw	-
Hydrogen Peroxide 7722-84-1	0.047 mg/kg sediment dw	0.047 mg/kg sediment dw	4.66 mg/L	0.0023 mg/kg soil dw	-

**Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Wear protective nitrile rubber gloves, Neoprene gloves, Polyvinyl alcohol, Viton™	0.4 mm	<8 Hours

**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 advice** Handle in accordance with good industrial hygiene and safety practice

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**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, Liquid  
**Color** Colorless  
**Odor** Slight  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known

<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit:</b>	No data available	
<b>Lower flammability limit:</b>	No data available	
<b>Flash point</b>	76 °C	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>		None known
<b>pH</b>	No data available	None known
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic viscosity</b>	No Data Available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Water solubility</b>	Slightly soluble	None known
<b>Solubility(ies)</b>	No Data Available	None known
<b>Partition coefficient</b>	No Data Available	None known
<b>Vapor pressure</b>	No Data Available	None known
<b>Relative density</b>	No data available	None known
<b>Bulk density</b>	No data available	
<b>Density</b>	1.1 g/cm <sup>3</sup> (20 °C)	
<b>Vapor density</b>	>1	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	

**9.2. Other information**

**VOC content** 3.5% or 39 g/L

## 9.2.1. Information with regard to physical hazard classes

Not applicable

SADT (°C) 60°C

## 9.2.2. Other safety characteristics

No information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

**Reactivity** Stable.

**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** None known based on information supplied.

**10.5. Incompatible materials**

**Incompatible materials** Strong acids, Strong bases, Heavy metals, Metal salts, Reducing agent.

**10.6. Hazardous decomposition products**

**Hazardous Decomposition Products** None known based on information supplied.

**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**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Causes mild skin irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Symptoms</b>	Prolonged contact may cause redness and irritation.
<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.

**Numerical measures of toxicity**

The following ATE values have been calculated for the mixture

ATEmix (oral)	1,442.60 mg/kg
ATEmix (inhalation-dust/mist)	4.23 mg/l

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl Phthalate	= 6800 mg/kg ( Rat )	> 12000 mg/kg ( Rabbit )	-
2-Butanone, peroxide	= 407 mg/kg ( Rat )	= 4000 mg/kg ( Rabbit )	= 200 ppm ( Rat ) 4 h
Trimethylpentaedoil isobutyrate	> 2000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.3 mg/L ( Rat ) 6 h
Butanone	= 2483 mg/kg ( Rat )	= 5000 mg/kg ( Rabbit )	= 11700 ppm ( Rat ) 4 h
Hydrogen Peroxide	= 1518 mg/kg ( Rat )	= 9200 mg/kg ( Rabbit )	= 2000 mg/m <sup>3</sup> ( Rat ) 4 h

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

<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Causes severe skin burns and eye damage.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Causes serious eye damage.
<b>Respiratory or skin sensitization</b>	Classification based on data available for ingredients. Harmful if inhaled. Suspected of damaging the unborn child.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**11.2. Information on other hazards**

**11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** Based on available data, the classification criteria are not met.

**11.2.2. Other information**

**Neurological effects** Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

**Other adverse effects** Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Dimethyl Phthalate	EC50: 28.4 - 71mg/L (72h, Pseudokirchneriella subcapitata) EC50: =204mg/L (72h, Desmodesmus subspicatus) EC50: 20.6 - 45.8mg/L (96h, Pseudokirchneriella subcapitata) EC50: =142mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =49.5mg/L (96h, Lepomis macrochirus) LC50: 37 - 69mg/L (96h, Lepomis macrochirus) LC50: =56mg/L (96h, Oncorhynchus mykiss) LC50: =39mg/L (96h, Pimephales promelas) LC50: =121 mg/L (96h, Pimephales promelas)	-	EC50: =33mg/L (48h, Daphnia magna)
2-Butanone, peroxide	-	LC50: =44.2mg/L (96h, Poecilia reticulata)	-	-
Trimethylpentaedoil isobutyrate	-	LC50: >1.55mg/L (96h, Pimephales promelas)	-	EC50: >1.46mg/L (48h, Daphnia magna)
Butanone	-	LC50: 3130 - 3320mg/L (96h, Pimephales promelas)	-	EC50: >520mg/L (48h, Daphnia magna) EC50: =5091mg/L (48h, Daphnia magna) EC50: 4025 - 6440mg/L (48h, Daphnia magna)
Hydrogen Peroxide	-	LC50: =16.4mg/L (96h, Pimephales promelas) LC50: 18 - 56mg/L (96h, Lepomis macrochirus) LC50: 10.0 - 32.0mg/L (96h, Oncorhynchus mykiss)	-	EC50: 18 - 32mg/L (48h, Daphnia magna)

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation**

Chemical name	Partition coefficient
Dimethyl Phthalate	1.56
2-Butanone, peroxide	0.3
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** Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
Dimethyl Phthalate	Not PBT/vPvB
2-Butanone, peroxide	Not PBT/vPvB
Trimethylpentaedoil isobutyrate	Not PBT/vPvB
Butanone	Not PBT/vPvB
Hydrogen Peroxide	Not PBT/vPvB

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** Based on available data, the classification criteria are not met.

**12.7. Other adverse effects**

**Other adverse effects** No information available.

**PMT or vPvM properties** Based on available data, the classification criteria are not met.

**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 UN proper shipping name  
Organic peroxide type D, liquid  
Technical Name 2-Butanone, peroxide
- 14.3 Transport hazard class(es) 5.2
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards No
- 14.6 Special precautions for user  
Special Provisions A20, A150, A802  
ERG Code 5L

**Description** UN3105, ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S)), 5.2

**IMDG**

14.1 UN number or ID number UN3105  
 14.2 UN proper shipping name Organic peroxide type D, liquid  
     **Technical Name** 2-Butanone, peroxide  
 14.3 Transport hazard class(es) 5.2  
 14.4 Packing group Not regulated  
 14.5 Environmental hazards No  
     **Marine pollutant indicator** NP  
 14.6 Special precautions for user  
     **Special Provisions** 122, 274  
     **EmS-No.** F-J, S-R  
     **Description** UN3105, ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S)), 5.2  
 14.7 Maritime transport in bulk according to IMO instruments No information available

**RID**

14.1 UN number or ID number UN3105  
 14.2 UN proper shipping name Organic peroxide type D, liquid  
     **Technical Name** 2-Butanone, peroxide  
 14.3 Transport hazard class(es) 5.2  
 14.4 Packing group Not regulated  
     **Description** UN3105, Organic peroxide type D, liquid (2-Butanone, peroxide), 5.2  
 14.5 Environmental hazards No  
 14.6 Special precautions for user  
     **Special Provisions** 122, 274  
     **Classification code** P1

**ADR**

14.1 UN number or ID number UN3105  
 14.2 UN proper shipping name Organic peroxide type D, liquid2  
     **Technical Name** 2-Butanone, peroxide  
 14.3 Transport hazard class(es) 5.2  
 14.4 Packing group Not regulated  
     **Description** UN3105, ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))(2-Butanone, peroxide), 5.2  
 14.5 Environmental hazards No  
 14.6 Special precautions for user  
     **Special Provisions** 122, 274  
     **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)

**Chemical Prohibition Ordinance (ChemVerbotsV)**

This product is subject to requirements and restrictions regarding handling and delivery

Chemical name	ANNEX I
Hydrogen Peroxide 7722-84-1	2.1

TRGS 905 Not applicable

**Switzerland**

**Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018** Group I  
**Storage of Hazardous Material** Not applicable  
**WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20** Class B  
**Major Accidents Ordinance SR 814.012** Not applicable

**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 contains one or more substance(s) 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
Butanone 78-93-3	75	-
Hydrogen Peroxide 7722-84-1	75	-

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) Regulation (EU) 2024/590**

Not applicable.

**EU - Plant Protection Products (1107/2009/EC)**

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Hydrogen Peroxide 7722-84-1	Plant protection agent

**Biocidal Products Regulation (EU) No 528/2012 (BPR)**

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Hydrogen Peroxide 7722-84-1	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 3: Veterinary hygiene Product-type 4: Food and feed area Product-type 5: Drinking water Product-type 6: Preservatives for products during storage Product-type 11: Preservatives for liquid-cooling and processing systems Product-type 12: Slimicides Product-type 1: Human hygiene

**Explosives Precursors Marketing and Use (2019/1148)**

Not applicable

Chemical name	Limit value	Upper limit value for the purpose of licensing under article 5(3)	Reportable explosives precursors
Hydrogen Peroxide 7722-84-1	12 %w/w	35 %w/w	-

**International Inventories**

**TSCA** Complies

**EINECS/ELINCS** Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified 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 any hazard and/or precautionary statements referred to under Sections 2-15**

EUH066 - Repeated exposure may cause skin dryness or cracking

H225 - Highly flammable liquid and vapor

H271 - May cause fire or explosion; strong oxidizer

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

**Legend**

SVHC: Substances of Very High Concern for Authorization:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT: Specific Target Organ Toxicity

ATE: Acute Toxicity Estimate

LC50: 50% Lethal Concentration

LD50: 50% Lethal Dose

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

\*

Skin designation

+ Sensitizers

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	On basis of test data
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method
Flammable liquids	On basis of test data
Self-reactive substances and mixtures	On basis of test data

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

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)  
 U.S. 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 National Institute of Technology and Evaluation (NITE)  
 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)  
 U.S. National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications  
 International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program  
 International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set  
 United Nations World Health Organization (WHO)

**Revision Date** 14-Aug-2025

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

**Disclaimer**

**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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**