



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and
Regulation (EC) No. 1272/2008

Revision Date 21-Jan-2025

Version 1

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

1.1. Product identifier

Product Code 25005
Product Name HIGH STRENGTH REMOVABLE THREADLOCKER ORANGE GEL 5 GR

Other means of identification

Unique Formula Identifier (UFI) A42J-50P3-600Q-KPF9

Mixture. Contains CUMENE HYDROPEROXIDE; CUMENE

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

Recommended Use Adhesive
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer	Only Representative (OR)
ITW Permatex, Inc. 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502	ITW Permatex, Inc. 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

Contact Point ITW Permatex, Inc.
6875 Parkland Blvd.
Solon, Ohio 44139 USA
Telephone: 1-87-Permatex
(866) 732-9502

E-mail address: mail@permatex.com

Non-Emergency Telephone Number 866-732-9502

1.4. Emergency telephone number

24-hour emergency phone number EU Member States information as follows:

24-hour emergency phone number - §45 - (EC)1272/2008	
Europe	112
Austria	01 406 43 43

Belgium	070 245 245
Bulgaria	+359 2 9154 233
Croatia	+3851 2348 342
Cyprus	1401
Czech Republic	+420 224 919 293/ +420 224 915 402
Denmark	+ 45 8212 1212
Estonia	16662/ (+372) 7943 794
Finland	0800 147 111/ 09 471 977
France	+33 (0)1 45 42 59 59
Germany	+49 228 192 40
Greece	(003) 2107793777
Hungary	+36 80 201 199
Iceland	543 2222
Ireland	01 809 2166
Italy	0382-24444
Latvia	+371 67042473
Liechtenstein	01 406 43 43
Lithuania	+370 (85) 2362052
Luxembourg	(+352) 8002 5500
Malta	112
Netherlands	+31 (0)88 755 8000
Norway	22 59 13 00
Poland	112
Portugal	+351 800 250 250
Romania	+40213183606
Slovakia	+421 2 5477 4166
Slovenia	112
Spain	+34 91 562 04 20
Sweden	112
Switzerland	145
United Kingdom	111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Eye irritation	Category 2 - (H319)
Carcinogenicity	Category 1B - (H350)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Category 3 Target organ effects: Respiratory irritation.	
Hazardous to the aquatic environment - chronic	Category 3 - (H412)

2.2. Label elements

Contains CUMENE HYDROPEROXIDE; CUMENE



Signal word
 Danger

Hazard statements

H319 - Causes serious eye irritation.
 H335 - May cause respiratory irritation.
 H350 - May cause cancer.
 H412 - Harmful to aquatic life with long lasting effects.

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

P201 - Obtain special instructions before use.
 P261 - Avoid breathing dust, fume, gas, mist, vapors and spray.
 P280 - Wear protective gloves, protective clothing, eye protection and face protection.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 - Call a POISON CENTER or doctor if you feel unwell.
 P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

47.8 % of the mixture consists of ingredient(s) of unknown acute toxicity.
 13.14 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
 18 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
 47.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
 47.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
 45.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Unknown aquatic toxicity

Contains 61.09 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

Other hazards Causes mild skin irritation.
PBT & vPvB The components in this formulation do not meet the criteria for classification 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 (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
CUMENE HYDROPEROXIDE 80-15-9	1-5%	No data available	201-254-7 (617-002-00-8)	Org. Perox. E (H242) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1B (H314) Acute Tox. 3 (H331) STOT RE 2 (H373) Aquatic Chronic 2 (H411)	Eye Dam. 1 :: 3%<=C<10% Eye Irrit. 2 :: 1%<=C<3% Skin Corr. 1B :: C>=10% Skin Irrit. 2 :: 3%<=C<10% STOT SE 3 :: C<10%	-	-	-

PROPYLENE GLYCOL 57-55-6	0.1-1%	No data available	200-338-0	No data available	-	-	-	-
1-ACETYL-2-PHENYLHYDRAZINE 114-83-0	0.1-1%	No data available	204-055-3	No data available	-	-	-	-
DIMETHYLBENZYL ALCOHOL 617-94-7	0.1-1%	No data available	210-539-5	No data available	-	-	-	-
CUMENE 98-82-8	0.1-1%	No data available	202-704-5 (601-024-00-X)	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H335) Carc. 1B (H350) Aquatic Chronic 2 (H411)	-	-	-	-
ACETOPHENONE 98-86-2	<0.1%	No data available	202-708-7 (606-042-00-1)	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)	-	-	-	-
P-BENZOQUINONE 106-51-4	<0.1%	No data available	203-405-2 (606-013-00-3)	Acute Tox. 3 (H301) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 3 (H331) STOT SE 3 (H335) Aquatic Acute 1 (H400)	-	10	-	-

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 (ATE_{mix}) 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
CUMENE HYDROPEROXIDE 80-15-9	382	133.56	No data available	No data available	No data available
PROPYLENE GLYCOL 57-55-6	20000	20800	No data available	No data available	No data available
DIMETHYLBENZYL ALCOHOL 617-94-7	1300	997	No data available	No data available	No data available
CUMENE 98-82-8	1400	10578	No data available	21.5355	No data available
ACETOPHENONE 98-86-2	2081	3300	4.26	No data available	No data available
P-BENZOQUINONE 106-51-4	130	No data available	No data available	No data available	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	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
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. Call a physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms	May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.
Effects of Exposure	May cause cancer.

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.
Small Fire	In case of fire, use water spray, foam, dry chemical, or CO2.
Large Fire	In case of fire, use water spray, foam, dry chemical, or CO2.
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.
Hazardous combustion products	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.
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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.
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.
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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.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Packaging materials	No information available.
Storage class (TRGS 510)	Storage class 6.1C.

7.3. Specific end use(s)

Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.
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Other Information
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
PROPYLENE GLYCOL 57-55-6	-	-	-	-	TWA: 150 ppm TWA: 474 mg/m ³ TWA: 10 mg/m ³
DIMETHYLBENZYL ALCOHOL 617-94-7	-	-	-	TWA: 0.05 mg/m ³	-
CUMENE 98-82-8	TWA: 50 mg/m ³ TWA: 10 ppm STEL: 250 mg/m ³ STEL: 50 ppm Sk*	TWA: 10 ppm TWA: 50 mg/m ³ STEL 50 ppm STEL 250 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*
ACETOPHENONE 98-86-2	-	-	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 5.0 mg/m ³	-
P-BENZOQUINONE 106-51-4	-	TWA: 0.1 ppm TWA: 0.4 mg/m ³ STEL 0.1 ppm STEL 0.4 mg/m ³ Ceiling: 0.1 ppm Ceiling: 0.4 mg/m ³ Sh+	TWA: 0.1 ppm TWA: 0.45 mg/m ³	TWA: 0.4 mg/m ³	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
CUMENE 98-82-8	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 100 mg/m ³ Sk* Ceiling: 250 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 250 mg/m ³ STEL: 50 ppm Sk*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*
ACETOPHENONE 98-86-2	-	-	TWA: 10 ppm TWA: 49 mg/m ³ STEL: 20 ppm STEL: 98 mg/m ³	-	TWA: 5 ppm TWA: 25 mg/m ³
P-BENZOQUINONE 106-51-4	-	TWA: 0.4 mg/m ³ Ceiling: 0.8 mg/m ³	TWA: 0.1 ppm TWA: 0.4 mg/m ³ STEL: 0.2 ppm STEL: 0.8 mg/m ³	TWA: 0.1 ppm TWA: 0.4 mg/m ³ STEL: 0.3 ppm STEL: 1.3 mg/m ³	TWA: 0.1 ppm TWA: 0.45 mg/m ³ STEL: 0.3 ppm STEL: 1.3 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
CUMENE 98-82-8	TWA: 10 ppm TWA: 50 mg/m ³ TWA: 150 mg/m ³ TWA: 1000 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ STEL: 1500 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ Peak: 40 ppm Peak: 200 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 50 mg/m ³ TWA: 10 ppm STEL: 250 mg/m ³ STEL: 50 ppm Sk*
ACETOPHENONE 98-86-2	-	-	-	-	TWA: 50 mg/m ³
P-BENZOQUINONE 106-51-4	TWA: 0.1 ppm TWA: 0.4 mg/m ³ STEL: 0.3 ppm STEL: 1.5 mg/m ³	-	skin sensitizer	TWA: 0.1 ppm TWA: 0.4 mg/m ³ STEL: 0.3 ppm STEL: 1.5 mg/m ³	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
CUMENE HYDROPEROXIDE 80-15-9	-	-	-	TWA: 1 mg/m ³	TWA: 1 mg/m ³ Sk*
PROPYLENE GLYCOL 57-55-6	TWA: 10 mg/m ³ TWA: 150 ppm	-	-	TWA: 7 mg/m ³	TWA: 7 mg/m ³

	TWA: 470 mg/m ³ STEL: 1410 mg/m ³ STEL: 30 mg/m ³ STEL: 450 ppm				
1-ACETYL-2-PHENYLHY DRAZINE 114-83-0	-	-	-	-	TWA: 0.013 mg/m ³ TWA: 0.01 ppm Sk* J+
CUMENE 98-82-8	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 100 ppm TWA: 20 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 50 ppm TWA: 246 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 50 mg/m ³ TWA: 10 ppm STEL: 170 mg/m ³ STEL: 35 ppm Sk*
ACETOPHENONE 98-86-2	TWA: 10 ppm TWA: 49 mg/m ³ STEL: 30 ppm STEL: 147 mg/m ³	-	TWA: 10 ppm TWA: 49 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³ Sk*
P-BENZOQUINONE 106-51-4	TWA: 0.1 ppm TWA: 0.4 mg/m ³ STEL: 0.3 ppm STEL: 1.2 mg/m ³	-	TWA: 0.1 ppm TWA: 0.44 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.1 ppm TWA: 0.4 mg/m ³ STEL: 0.3 ppm STEL: 1.3 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
PROPYLENE GLYCOL 57-55-6	-	-	-	TWA: 25 ppm TWA: 79 mg/m ³ STEL: 37.5 ppm STEL: 118.5 mg/m ³	TWA: 100 mg/m ³
CUMENE 98-82-8	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 50 mg/m ³ TWA: 10 ppm STEL: 250 mg/m ³ STEL: 50 ppm Sk*	TWA: 50 mg/m ³ STEL: 250 mg/m ³ Sk*
ACETOPHENONE 98-86-2	-	-	-	-	TWA: 50 mg/m ³ STEL: 100 mg/m ³
P-BENZOQUINONE 106-51-4	-	-	-	TWA: 0.1 ppm TWA: 0.4 mg/m ³ STEL: 0.3 ppm STEL: 1.2 mg/m ³	TWA: 0.1 mg/m ³ STEL: 0.4 mg/m ³
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
CUMENE 98-82-8	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ Sk* Ceiling: 250 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*
ACETOPHENONE 98-86-2	TWA: 10 ppm	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 41 ppm STEL: 200 mg/m ³	-	-	TWA: 10 ppm TWA: 50 mg/m ³
P-BENZOQUINONE 106-51-4	TWA: 0.1 ppm	TWA: 0.3 mg/m ³ STEL: 0.4 mg/m ³	TWA: 0.1 ppm TWA: 0.4 mg/m ³ S+	-	TWA: 0.1 ppm TWA: 0.45 mg/m ³
Chemical name	Sweden		Switzerland		United Kingdom
PROPYLENE GLYCOL 57-55-6	-		-		TWA: 150 ppm TWA: 474 mg/m ³ TWA: 10 mg/m ³ STEL: 450 ppm STEL: 1422 mg/m ³ STEL: 30 mg/m ³
CUMENE	NGV: 10 ppm		TWA: 20 ppm		TWA: 25 ppm

98-82-8	NGV: 50 mg/m ³ Bindande KGV: 50 ppm Bindande KGV: 250 mg/m ³ Sk*	TWA: 100 mg/m ³ STEL: 80 ppm STEL: 400 mg/m ³ Sk*	TWA: 125 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*
P-BENZOQUINONE 106-51-4	NGV: 0.1 ppm NGV: 0.4 mg/m ³ Vägledande KGV: 0.3 ppm Vägledande KGV: 1.3 mg/m ³	TWA: 0.1 ppm TWA: 0.4 mg/m ³ STEL: 0.1 ppm STEL: 0.4 mg/m ³ S+	-

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
CUMENE 98-82-8	-	-	7 mg/g Creatinine - urine (2-Phenol-2- propanol) - up to two hours after the end of work shift	-	-
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
CUMENE 98-82-8	-	-	-	10 mg/g Creatinine (urine - 2-Phenyl-2-propanol (after hydrolysis) end of shift) 10 mg/g Creatinine - BAT (end of exposure or end of shift) urine	10 mg/g Creatinine (urine - 2-Phenyl-2-propanol (after hydrolysis) end of shift)
Chemical name	Latvia	Luxembourg	Romania	Slovakia	
CUMENE 98-82-8	-	-	-	10.6 mg/L (urine - 2-Phenylpropane end of exposure or work shift)	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
CUMENE 98-82-8	10 mg/g Creatinine - urine (2-Phenyl-2-propanol (after hydrolysis)) - at the end of the work shift	7 mg/g Creatinine (urine - 2-Phenyl-2-propanol end of shift)	20 mg/g creatinine (urine - 2-Phenyl-2-propanol after hydrolysis end of shift) 16.6 µmol/mmol creatinine (urine - 2-Phenyl-2-propanol after hydrolysis end of shift)	-	

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
HYDROXYALKYL METHACRYLATE 27813-02-1	-	4.2 mg/kg bw/day [4] [6]	14.7 mg/m ³ [4] [6]
ALIPHATIC URETHANE METHACRYLATE 3290-92-4	-	42 mg/kg bw/day [4] [6] 9.33 mg/cm ² [5] [6]	14.81 mg/m ³ [4] [6]
CUMENE HYDROPEROXIDE 80-15-9	-	-	6 mg/m ³ [4] [6]
SACCHARIN	-	18.75 mg/kg bw/day [4] [6]	131.3 mg/m ³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
81-07-2			
PROPYLENE GLYCOL 57-55-6	-	-	168 mg/m ³ [4] [6] 10 mg/m ³ [5] [6]
FD&C Yellow No.5 1934-21-0	-	52.82 mg/kg bw/day [4] [6]	372.52 mg/m ³ [4] [6]
CUMENE 98-82-8	-	15.4 mg/kg bw/day [4] [6]	100 mg/m ³ [4] [6] 250 mg/m ³ [5] [7]
ACETOPHENONE 98-86-2	-	6.3 mg/kg bw/day [4] [6]	22 mg/m ³ [4] [6]

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
HYDROXYALKYL METHACRYLATE 27813-02-1	2.5 mg/kg bw/day [4] [6]	-	8.8 mg/m ³ [4] [6]
ALIPHATIC URETHANE METHACRYLATE 3290-92-4	1.5 mg/kg bw/day [4] [6]	4.67 mg/cm ² [5] [6]	2.6 mg/m ³ [4] [6]
SACCHARIN 81-07-2	12.5 mg/kg bw/day [4] [6]	-	50 mg/m ³ [4] [6]
PROPYLENE GLYCOL 57-55-6	-	-	50 mg/m ³ [4] [6] 10 mg/m ³ [5] [6]
FD&C Yellow No.5 1934-21-0	26.41 mg/kg bw/day [4] [6]	-	91.86 mg/m ³ [4] [6]
CUMENE 98-82-8	5 mg/kg bw/day [4] [6]	-	16.6 mg/m ³ [4] [6]
ACETOPHENONE 98-86-2	3.1 mg/kg bw/day [4] [6] 6.25 mg/kg bw/day [4] [7]	6.25 mg/kg bw/day [4] [6] 6.25 mg/kg bw/day [4] [7]	5.4 mg/m ³ [4] [6] 21.7 mg/m ³ [4] [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
HYDROXYALKYL METHACRYLATE 27813-02-1	0.904 mg/L	0.972 mg/L	0.904 mg/L	0.972 mg/L	-
ALIPHATIC URETHANE METHACRYLATE 3290-92-4	2.76 µg/L	20 µg/L	0.276 µg/L	-	-
CUMENE HYDROPEROXIDE 80-15-9	0.0031 mg/L	0.031 mg/L	0.00031 mg/L	-	-

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
SACCHARIN 81-07-2	5 mg/L	50 mg/L	0.5 mg/L	-	-
PROPYLENE GLYCOL 57-55-6	260 mg/L	183 mg/L	26 mg/L	-	-
FD&C Yellow No.5 1934-21-0	0.12 mg/L	1.2 mg/L	0.012 mg/L	-	-
CUMENE 98-82-8	0.035 mg/L	0.012 mg/L	0.0035 mg/L	-	-
ACETOPHENONE 98-86-2	0.0864 mg/L	0.864 mg/L	0.00864 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
HYDROXYALKYL METHACRYLATE 27813-02-1	6.28 mg/kg sediment dw	6.28 mg/kg sediment dw	10 mg/L	0.727 mg/kg soil dw	-
ALIPHATIC URETHANE METHACRYLATE 3290-92-4	0.4951 mg/kg sediment dw	0.04951 mg/kg sediment dw	10 mg/L	0.0974 mg/kg soil dw	-
CUMENE HYDROPEROXIDE 80-15-9	0.023 mg/kg sediment dw	0.0023 mg/kg sediment dw	0.35 mg/L	0.0029 mg/kg soil dw	-
SACCHARIN 81-07-2	104.403 mg/kg sediment dw	104.403 mg/kg sediment dw	50 mg/L	29.024034 mg/kg soil dw	-
PROPYLENE GLYCOL 57-55-6	572 mg/kg sediment dw	57.2 mg/kg sediment dw	20000 mg/L	50 mg/kg soil dw	-
FD&C Yellow No.5 1934-21-0	0.46992 mg/kg sediment dw	0.046992 mg/kg sediment dw	10 mg/L	0.02353 mg/kg soil dw	-
CUMENE 98-82-8	3.22 mg/kg sediment dw	0.322 mg/kg sediment dw	200 mg/L	0.624 mg/kg soil dw	-
ACETOPHENONE 98-86-2	0.178 mg/kg sediment dw	0.0178 mg/kg sediment dw	10 mg/L	0.155 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls

No information available.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand protection

Wear suitable gloves.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Thermal hazards

No information available.

Other protective equipment No information available.

Environmental exposure controls No information available.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Paste / Gel Liquid
Color Orange
Odor No information available
Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	Boiling point / boiling range > 150 °C Flammability (solid, gas) No data available None known
Flammability Limit in Air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Flash point	> 95 °C	
Autoignition temperature	No data available	Decomposition temperature
pH	No data available	pH (as aqueous solution) No data available
None known		Kinematic viscosity No Data Available
Dynamic viscosity	No data available	Water solubility No data available Insoluble
None known		Solubility(ies) No Data Available
None known		Partition coefficient No Data Available
Relative density	1.11-1.15	Vapor pressure No Data Available
Bulk density	No data available	
Density	No data available	
Vapor density	No data available	Air = 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

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.

Hazardous polymerization No information available.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

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

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

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. Prolonged contact may cause redness and irritation. Causes mild skin irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation.

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

Acute toxicity Based on available data, the classification criteria are not met.

Numerical measures of toxicity

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

ATEmix (oral) 8,438.50 mg/kg
ATEmix (dermal) 10,413.30 mg/kg
ATEmix (inhalation-gas) 99,999.00 ppm
ATEmix (inhalation-vapor) 99,999.00 mg/l
ATEmix (inhalation-dust/mist) 10.20 mg/l

13.14 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
 18 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
 47.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
 47.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
 45.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
CUMENE HYDROPEROXIDE	= 382 mg/kg (Rat)	= 0.126 mL/kg (Rabbit)	= 220 ppm (Rat) 4 h
PROPYLENE GLYCOL	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	-
DIMETHYLBENZYL ALCOHOL	= 1300 mg/kg (Rat)	= 1 mL/kg (Rabbit)	-
CUMENE	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	> 3577 ppm (Rat) 6 h
ACETOPHENONE	= 2081 mg/kg (Rat)	= 3300 mg/kg (Rat)	> 2.130 mg/L (Rat) 8 h
P-BENZOQUINONE	= 130 mg/kg (Rat)	-	-

Skin corrosion/irritation Classification based on data available for ingredients. Causes mild skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

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

Chemical name	European Union
CUMENE	Carc. 1B

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure May cause respiratory irritation.

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 No information available.

Other adverse effects No information available.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity Contains 61.09 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
CUMENE HYDROPEROXIDE	-	LC50: =3.9mg/L (96h, Oncorhynchus mykiss)	-	-
PROPYLENE GLYCOL	EC50: =19000mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =51600mg/L (96h, Oncorhynchus mykiss) LC50: 41 - 47mL/L (96h, Oncorhynchus mykiss) LC50: =51400mg/L (96h, Pimephales promelas) LC50: =710mg/L (96h, Pimephales promelas)	-	EC50: >1000mg/L (48h, Daphnia magna)
CUMENE	EC50: =2.6mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 6.04 - 6.61mg/L (96h, Pimephales promelas) LC50: =4.8mg/L (96h, Oncorhynchus mykiss) LC50: =2.7mg/L (96h, Oncorhynchus mykiss) LC50: =5.1mg/L (96h, Poecilia reticulata)	-	EC50: =0.6mg/L (48h, Daphnia magna) EC50: 7.9 - 14.1mg/L (48h, Daphnia magna)
ACETOPHENONE	-	LC50: =162mg/L (96h, Pimephales promelas) LC50: =155mg/L (96h, Pimephales promelas)	-	-
P-BENZOQUINONE	-	LC50: =0.045mg/L (96h, Oncorhynchus mykiss)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Chemical name	Partition coefficient
---------------	-----------------------

CUMENE HYDROPEROXIDE	1.6
PROPYLENE GLYCOL	-1.07
CUMENE	3.55
ACETOPHENONE	1.65
P-BENZOQUINONE	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
CUMENE HYDROPEROXIDE	The substance is not PBT / vPvB
PROPYLENE GLYCOL	The substance is not PBT / vPvB
CUMENE	The substance is not PBT / vPvB
ACETOPHENONE	The substance is 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.

Other information No information available.

Section 14: Transport information

IATA

- | | |
|-----------------------------------|----------------|
| 14.1 UN number or ID number | Not regulated |
| 14.2 UN proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |

IMDG

- 14.1 UN number or ID number Not regulated
- 14.2 UN proper shipping name Not regulated
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not applicable
- 14.6 Special precautions for user
- Special Provisions None
- 14.7 Maritime transport in bulk according to IMO instruments No information available

RID

- 14.1 UN number or ID number Not regulated
- 14.2 UN proper shipping name Not regulated
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not applicable
- 14.6 Special precautions for user
- Special Provisions None

ADR

- 14.1 UN number or ID number Not regulated
- 14.2 UN proper shipping name Not regulated
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not applicable
- 14.6 Special precautions for user
- Special Provisions None

ADN

- 14.1 UN number or ID number Not regulated
- 14.2 UN proper shipping name Not regulated
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazard Not applicable
- 14.6 Special precautions for user
- Special Provisions None

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
PROPYLENE GLYCOL - 57-55-6	RG 84
CUMENE - 98-82-8	RG 84
ACETOPHENONE - 98-86-2	RG 84

Germany

Water hazard class (WGK) strongly hazardous to water (WGK 3)
TA Luft (German Air Pollution Control Regulation)

Chemical name	Number	Class
P-BENZOQUINONE	5.2.5	Class I

Netherlands

Carcinogenic, mutagenic and reproductive toxic effects

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
CUMENE	Present	-	-

Switzerland

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Group I
Storage of Hazardous Material SC 10/12
WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20 Class B

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
CUMENE HYDROPEROXIDE - 80-15-9	75	-
CUMENE - 98-82-8	28 75	-
ACETOPHENONE - 98-86-2	75	-
P-BENZOQUINONE - 106-51-4	75	-

Persistent Organic Pollutants

Not applicable

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

Not applicable

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Complies
KECI	Complies
PICCS	Complies
AICS	Complies
NZIoC	Complies
TCSI	Contact supplier for inventory compliance status

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 Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
TCSI - Taiwan Chemical Substance Inventory

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

H226 - Flammable liquid and vapor
 H242 - Heating may cause a fire
 H301 - Toxic if swallowed
 H302 - Harmful if swallowed
 H304 - May be fatal if swallowed and enters airways
 H312 - Harmful in contact with skin
 H314 - Causes severe skin burns and eye damage
 H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H331 - Toxic if inhaled
 H335 - May cause respiratory irritation
 H350 - May cause cancer
 H373 - May cause damage to organs through prolonged or repeated exposure
 H400 - Very toxic to aquatic life
 H411 - Toxic to aquatic life with long lasting effects

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
Chronic aquatic toxicity	Calculation method
Acute 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)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
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)
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)
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

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

Disclaimer

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End of Safety Data Sheet