SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 04-Jun-2024 **Version** 19

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

1.1. Product identifier

Product Code 27100

Product Name HIGH STRENGTH THREADLOCKER RED 6ML

Unique Formula Identifier (UFI) Code CMNH-80W4-G00F-0UCV
Other means of identification

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

Only Representative (OR)
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 - §45 - (EC)1272/2008	
Europe	**112**
Austria	01 406 43 43
Belgium	070 245 245
Denmark	+ 45 8212 1212
Finland	0800 147 111/ 09 471 977
France	+33 (0)1 45 42 59 59

Germany	+49 228 192 40
Ireland	01 809 2166
Italy	0382-24444
Netherlands	+31 (0)88 755 8000
Norway	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

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
Carcinogenicity	Category 1B - (H350)
Specific target organ toxicity (single exposure)	Category 3 - (H335, H336)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains CUMENE

Signal word

Danger

Hazard statements

H319 - Causes serious eye irritation

H335 + H336 - May cause respiratory irritation. May cause drowsiness or dizziness

H350 - May cause cancer

H411 - Toxic to aquatic life with long lasting effects

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

P201 - Obtain special instructions before use

P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P391 - Collect spillage
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards
Causes mild skin irritation. Harmful to aquatic life.

Endocrine Disruptor Information

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Weight-%	REACH registration No.	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	2.5 - <5%		(617-002-00-8) 201-254-7	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 3 (H331) Skin Corr. 1B (H314) STOT RE 2 (H373) Aquatic Chronic 2 (H411) Org. Perox. E (H242)	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%	-	-
AROMATIC AMINE 609-72-3	0.5 - <1%		(612-056-00-9) 210-199-8	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT RE 2 (H373) Aquatic Chronic 3 (H412)	-	-	-
CUMENE 98-82-8	0.1 - <0.5%		(601-024-00-X) 202-704-5	Carc. 1B (H350) STOT SE 3 (H335) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam. Liq. 3	-	-	-

				(H226)			

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

Acute Toxicity Estimate
No information available

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
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	382	133.56	No data available	No data available	No data available
CUMENE 98-82-8	1400	10578	No data available	21.5355	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

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Ingestion Rinse mouth.

Self-protection of the first aider See section 8 for more information.

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

Symptoms No information available.

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

Effects of Exposure No information available.

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.

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.

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.

Packaging materials No information available.

7.3. Specific end use(s)

Specific use(s)
Adhesive.

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

Other Information
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
CUMENE 98-82-8	* STEL: 250 mg/m³ STEL: 50 ppm TWA: 50 mg/m³ TWA: 10 ppm	TWA: 10 ppm TWA: 50 mg/m³ STEL 50 ppm STEL 250 mg/m³ H*	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ D*	STEL: 50 ppm STEL: 250 mg/m³ TWA: 10 ppm TWA: 50 mg/m³ K*	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ *
Chemical name	**Cyprus**	**Czech Republic**	**Denmark**	**Estonia**	**Finland**
CUMENE 98-82-8	* STEL: 50 ppm STEL: 250 mg/m³ TWA: 10 ppm TWA: 50 mg/m³	TWA: 100 mg/m³ Ceiling: 250 mg/m³ D*	TWA: 10 ppm TWA: 50 mg/m³ H* STEL: 250 mg/m³ STEL: 50 ppm	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ A*	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ iho*
Chemical name	**France**	**Germany TRGS**	**Germany DFG**	**Greece**	**Hungary**
CUMENE 98-82-8	TWA: 10 ppm TWA: 50 mg/m³ TWA: 150 mg/m³ TWA: 1000 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ STEL: 1500 mg/m³ *	TWA: 10 ppm TWA: 50 mg/m³ H*	TWA: 10 ppm TWA: 50 mg/m³ Peak: 40 ppm Peak: 200 mg/m³ *	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ *	TWA: 50 mg/m³ TWA: 10 ppm STEL: 250 mg/m³ STEL: 50 ppm b*
Chemical name	**Ireland**	**Italy MDLPS**	**Italy AIDII**	**Latvia**	**Lithuania**
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	-	-	-	TWA: 1 mg/m³	O* TWA: 1 mg/m³
CUMENE 98-82-8	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ Sk*	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ cute*	TWA: 50 ppm TWA: 246 mg/m³	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ Ada*	O* TWA: 50 mg/m³ TWA: 10 ppm STEL: 170 mg/m³ STEL: 35 ppm
Chemical name	**Luxembourg**	**Malta**	**Netherlands**	**Norway**	**Poland**
CUMENE 98-82-8	Peau* STEL: 50 ppm STEL: 250 mg/m³ TWA: 10 ppm TWA: 50 mg/m³	skin* STEL: 50 ppm STEL: 250 mg/m³ TWA: 10 ppm TWA: 50 mg/m³	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ H*	TWA: 50 mg/m³ TWA: 10 ppm STEL: 250 mg/m³ STEL: 50 ppm H*	STEL: 250 mg/m³ TWA: 50 mg/m³ skóra*
Chemical name	**Portugal**	**Romania**	**Slovakia**	**Slovenia**	**Spain**
CUMENE 98-82-8	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ Cutânea*	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ P*	TWA: 20 ppm TWA: 500 mg/m³ K* Ceiling: 250 mg/m³	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ K*	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ vía dérmica*

Chemical name	Sweden	Switzerland	United Kingdom
CUMENE 98-82-8	NGV: 10 ppm NGV: 50 mg/m³ Bindande KGV: 50 ppm Bindande KGV: 250 mg/m³	TWA: 20 ppm TWA: 100 mg/m³ STEL: 80 ppm STEL: 400 mg/m³	TWA: 25 ppm TWA: 125 mg/m³ STEL: 50 ppm STEL: 250 mg/m³

	H*	H*	Sk*

Biological occupational exposure limits
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

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	7 µg/g Creatinine - urine (Cumene) - no later than two hours after the end of the shift	-	-	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)	-

8.2. Exposure controls

Derived No Effect Level (DNEL) - Workers No information available

Chemical name	Oral	Dermal	Inhalation
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	-	-	6 mg/m³ [4] [6]
CUMENE 98-82-8	-	15.4 mg/kg bw/day [4] [6]	100 mg/m³ [4] [6] 250 mg/m³ [5] [7]

Derived No Effect Level (DNEL) - General Public No information available.

Chemical name	Oral	Dermal	Inhalation
CUMENE 98-82-8	5 mg/kg bw/day [4] [6]	-	16.6 mg/m³ [4] [6]

Predicted No Effect Concentration (PNEC) No information available.

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	0.0031 mg/L	0.031 mg/L	0.00031 mg/L	-	-
CUMENE 98-82-8	0.035 mg/L	0.012 mg/L	0.0035 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
DIMETHYLBENZYL 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	-
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	-

Personal protective equipment

Eye/face protection No special protective equipment required.

Skin and body protection No special protective equipment required.

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.

Thermal hazards No information available.

Other protective equipment No information available.

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 Red
Color Red
Odor Mild
Odor threshold No information available

Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Boiling point / boiling range	200 °C	
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	131 °C	
Autoignition temperature	No data available	None known

Decomposition temperature		None known
pH	No data available	
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No Data Available	None known
Dynamic viscosity	500 mPas @ 20°C (68°F)	
Water solubility	No data available Immiscible in water	
Solubility(ies)	No Data Available	None known
Partition coefficient	No Data Available	None known
Vapor pressure	No Data Available	None known
Relative density	1.11	
Bulk density	No data available	
Density	No data available	
Vapor density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

VOC content 2.7

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

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

Acute toxicity

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

ATEmix (oral) 6,489.70 mg/kg
ATEmix (dermal) 19,018.20 mg/kg
ATEmix (inhalation-gas) 99,999.00 ppm
ATEmix (inhalation-dust/mist) 12.50 mg/l
ATEmix (inhalation-vapor) 99,999.00 mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
DIMETHYLBENZYL HYDROPEROXIDE	= 382 mg/kg (Rat)	= 0.126 mL/kg (Rabbit)	= 220 ppm (Rat) 4 h
CUMENE	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	> 3577 ppm (Rat) 6 h

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Chemical name	European Union
CUMENE	Carc. 1B

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
DIMETHYLBENZYL HYDROPEROXIDE	-	LC50: =3.9mg/L (96h, Oncorhynchus mykiss)	-	-
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)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

Chemical name	Partition coefficient
DIMETHYLBENZYL HYDROPEROXIDE	1.6
CUMENE	3.55

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment

DIMETHYLBENZYL HYDROPEROXIDE	The substance is not PBT / vPvB
CUMENE	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects
No information available.

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

IATA
14.1 UN number or ID number Not regulated
14.2
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

IMDG
14.1 UN number or ID number Not regulated
14.2
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
14.7 Maritime transport in bulk according to IMO instruments

RID
14.1 UN/ID No Not regulated
14.2
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

ADR
14.1 UN number or ID number Not regulated
14.2
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

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical name	French RG number
CUMENE - 98-82-8	RG 84

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

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
DIMETHYLBENZYL HYDROPEROXIDE - 80-15-9	75.	-
CUMENE - 98-82-8	28. 75.	-

Persistent Organic Pollutants

Not applicable

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

Not applicable

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Complies
IECSC	Complies
KECI	Complies
PICCS	Complies
AICS	Complies

Legend:

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 H-Statements referred to under section 3
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
H311 - Toxic in contact with skin
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H331 - Toxic if inhaled
H335 - May cause respiratory irritation
H350 - May cause cancer
H373 - May cause damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Legend
SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

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)
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)
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

Revision Date 04-Jun-2024

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

EU SDS version information - EGHS
UL release:
GHS Revision 7
2023 Q1

Specific target organ toxicity (single exposure)	Category 3

Full text of H-Statements referred to under section 3: 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 H311 - Toxic in contact with skin H312 - Harmful in contact with skin H314 - Causes severe skin burns and eye damage H331 - Toxic if inhaled H335 - May cause respiratory irritation H350 - May cause cancer H373 - May cause damage to organs through prolonged or repeated exposure H411 - Toxic to aquatic life with long lasting effects H412 - Harmful to aquatic life with long lasting effects

Chemical name	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)
DIMETHYLBENZYL HYDROPEROXIDE	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 3 (H331) Skin Corr. 1B (H314) STOT RE 2 (H373) Aquatic Chronic 2 (H411) Org. Perox. E (H242)	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%
AROMATIC AMINE	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT RE 2 (H373) Aquatic Chronic 3 (H412)	
CUMENE	Carc. 1B (H350) STOT SE 3 (H335) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226)	

Chemical name	CAS No.	French RG number
CUMENE	98-82-8	RG 84

VOC content