Safety Data Sheet

according to Regulation (EC) No 1907/2006

ARC CHP(E)

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

1.1. Product identifier

ARC CHP(E)

UFI: Q5SG-4PQ6-3NAN-HJ43

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

Use of the substance/mixture

Coatings and paints, fillers, putties, thinners

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	Chesterton International GmbH	
Street:	Am Lenzenfleck 23	
Place:	D-85737 Ismaning GERMANY	
Telephone:	+49 89 99 65 46 - 0	Telefax: +49 89 99 65 46 - 50
E-mail:	eu-sds@chesterton.com	
Contact person:	eu-sds@chesterton.com	Telephone: +49 89 99 65 46 - 0
E-mail:	eu-sds@chesterton.com	
Internet:	www.chesterton.com	
Responsible Department:	eu-sds@chesterton.com	

1.4. Emergency telephone number:

+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Self-react. F; H242
Carc. 1B; H350
Repr. 1B; H360D
Acute Tox. 3; H331
Acute Tox. 4; H312
Acute Tox. 4; H302
Skin Corr. 1B; H314
Eye Dam. 1; H318
STOT SE 3; H335
STOT RE 2; H373
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

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Hazard components for labelling

a,a-dimethylbenzyl hydroperoxide
2-phenylpropan-2-ol
cumene
bis(alpha,alpha-dimethylbenzyl) peroxide

Signal word: Danger

Pictograms:

Hazard statements

H242	Heating may cause a fire.
H302+H312	Harmful if swallowed or 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.
H360D	May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

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/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P370+P378	In case of fire: Use sand, extinguishing powder or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Special labelling of certain mixtures

EUH018	In use may form flammable/explosive vapour-air mixture. Restricted to professional users.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

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3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
80-15-9	Cumyl hydroperoxide			85 - < 90 %
	201-254-7	617-002-00-8	01-2119475796-19	
	Org. Perox. E, Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, STOT RE 2, Aquatic Chronic 2; H242 H331 H312 H302 H314 H373 H411			
617-94-7	2-phenylpropan-2-ol			5 - 10 %
	210-539-5		01-2119965145-35	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H302 H315 H319 H335			
98-82-8	cumene			1 - 5 %
	202-704-5	601-024-00-X	01-2119473983-24	
	Flam. Liq. 3, Carc. 1B, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H350 H335 H304 H411			
98-86-2	acetophenone			1 - 2 %
	202-708-7	606-042-00-1	01-2119533169-37	
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
80-43-3	bis(alpha,alpha-dimethylbenzyl) peroxide			< 0,6 %
	201-279-3	617-006-00-X		
	Org. Perox. F, Repr. 1B, Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2; H242 H360D H315 H319 H411			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
80-15-9	201-254-7	Cumyl hydroperoxide	85 - < 90 %
	inhalation: LC50 = 1,4 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = 500 mg/kg; oral: LD50 = 382 mg/kg Skin Corr. 1B; H314: >= 10 - 100 Skin Irrit. 2; H315: >= 3 - < 10 Eye Dam. 1; H318: >= 3 - < 10 Eye Irrit. 2; H319: >= 1 - < 3 STOT SE 3; H335: >= 1 - < 10		
617-94-7	210-539-5	2-phenylpropan-2-ol	5 - 10 %
	oral: ATE = 500 mg/kg		
98-82-8	202-704-5	cumene	1 - 5 %
	inhalation: LC50 = 39 mg/l (vapours); dermal: LD50 = > 3160 mg/kg; oral: LD50 = 2700 mg/kg		
98-86-2	202-708-7	acetophenone	1 - 2 %
	dermal: LD50 = 3300 mg/kg; oral: LD50 = 2081 mg/kg		
80-43-3	201-279-3	bis(alpha,alpha-dimethylbenzyl) peroxide	< 0,6 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = >= 2000 mg/kg		

SECTION 4: First aid measures

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4.1. Description of first aid measures

General information

Remove affected person from the danger area and lay down.
Symptoms can occur only after several hours.
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.
Call a physician immediately.
Put victim at rest, cover with a blanket and keep warm.
If unconscious but breathing normally, place in recovery position and seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician.
Do not wash with: Solvents/Thinner

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let 1 glass of water be drunken in little sips (dilution effect).
Do NOT induce vomiting.

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

Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.
Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

- alcohol resistant foam
- Water spray jet
- Carbon dioxide (CO_2)
- Dry extinguishing powder

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Sustaining combustion
In case of fire may be liberated:
- Carbon dioxide

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5.3. Advice for firefighters

Special protective equipment for firefighters Protective clothing. In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Dispose of waste according to applicable legislation.
Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation.
Clear spills immediately.
Avoid contact with skin, eyes and clothes.
Keep away from sources of ignition - No smoking.
Safe handling: see section 7
Personal protection equipment: see section 8

For non-emergency personnel

No information available.

For emergency responders

No information available.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Adverse environmental effects

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

No information available.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

See section 8. Wear personal protection equipment (refer to section 8).
Keep container tightly closed.
Keep away from sources of ignition - No smoking.
Provide adequate ventilation.

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Provide adequate ventilation.

Advice on protection against fire and explosion

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Avoid: generation/formation of aerosols

Advice on general occupational hygiene

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.
When using do not eat, drink or smoke.

Further information on handling

Observe instructions for use.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.
storage temperature: -30°C - +40 °C

Hints on joint storage

Keep away from:
Food and feedingstuffs
Reducing agent, Acid, Base, Base, Amines, Heavy metals

Further information on storage conditions

Keep away from:
Frost
Heat
Humidity

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
98-86-2	Acetophenone	10	49		TWA (8 h)	
98-82-8	Isopropyl benzene (cumene)	10	50		TWA (8 h)	
		50	250		STEL (15 min)	

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
80-15-9	Cumyl hydroperoxide			
Worker DNEL, long-term		inhalation	systemic	6 mg/m³
98-82-8	cumene			
Worker DNEL, long-term		inhalation	systemic	100 mg/m³
Worker DNEL, acute		inhalation	local	250 mg/m³
Worker DNEL, long-term		dermal	systemic	15,4 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	16,6 mg/m³
Consumer DNEL, long-term		dermal	systemic	1,2 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	5 mg/kg bw/day
,				
98-86-2	acetophenone			
Consumer DNEL, acute		inhalation	systemic	21,7 mg/m³
Consumer DNEL, acute		dermal	systemic	6,25 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	1,23 mg/m³
Worker DNEL, long-term		dermal	systemic	0,35 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,22 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,125 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,125 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	6,25 mg/kg bw/day
80-43-3	bis(alpha,alpha-dimethylbenzyl) peroxide			
Worker DNEL, long-term		inhalation	systemic	5,6 mg/m³
Worker DNEL, long-term		dermal	systemic	0,8 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,4 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,4 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,4 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental compartment		Value
80-15-9	Cumyl hydroperoxide	
Freshwater		0,003 mg/l
Freshwater (intermittent releases)		0,031 mg/l
Marine water		0 mg/l
Freshwater sediment		0,023 mg/kg
Marine sediment		0,002 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,35 mg/l
Soil		0,003 mg/kg
98-82-8	cumene	
Freshwater		0,035 mg/l
Freshwater (intermittent releases)		0,012 mg/l
Marine water		0,004 mg/l
Freshwater sediment		3,22 mg/kg
Marine sediment		0,322 mg/kg
Micro-organisms in sewage treatment plants (STP)		200 mg/l
Soil		0,624 mg/kg
98-86-2	acetophenone	
Freshwater		0,086 mg/l
Freshwater (intermittent releases)		0,864 mg/l
Marine water		0,009 mg/l
Freshwater sediment		1,13 mg/kg
Marine sediment		0,113 mg/kg
Micro-organisms in sewage treatment plants (STP)		34,6 mg/l
Soil		0,175 mg/kg
80-43-3	bis(alpha,alpha-dimethylbenzyl) peroxide	
Freshwater		0,00234 mg/l
Freshwater sediment		2,24 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,447 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Individual protection measures, such as personal protective equipment

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Eye/face protection

Suitable eye protection:
- Eye glasses with side protection
- goggles
- Face protection shield

Hand protection

Tested protective gloves must be worn: EN ISO 374
NBR (Nitrile rubber),
Wearing time with permanent contact: Thickness of the glove material: >= 0,4 mm, Breakthrough time: >480 min
Wearing time with occasional contact (splashes): Thickness of the glove material: >= 0,1 mm, Breakthrough time: > 30 min
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Breakthrough times and swelling properties of the material must be taken into consideration.

Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient , respiratory protection must be worn.
Combination filtering device A-P3
Self-contained respirator (breathing apparatus)

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	colourless	
Odour:	pungent	
Melting point/freezing point:		- 30 °C
Boiling point or initial boiling point and boiling range:		No data available
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		> 100 °C
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		4 - 7
Viscosity / kinematic:		No data available

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Water solubility: (at 20 °C)	miscible
Solubility in other solvents	
No information available.	
Partition coefficient n-octanol/water:	No data available
Vapour pressure: (at 20 °C)	4 hPa
Vapour pressure:	No data available
Density (at 20 °C):	1,06 g/cm³
Relative density:	No data available
Bulk density:	No data available
Relative vapour density:	No data available

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is: not explosive according to EU A.14

In use, may form flammable/explosive vapour-air mixture.

Self-ignition temperature

Solid:	No data available
Gas:	No data available

Oxidizing properties

Material, oxygen-rich, Oxidising

Other safety characteristics

Evaporation rate:	No data available
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
Self-accelerating decomposition temperature (SADT):	70 °C
Viscosity / dynamic: (at 20 °C)	10,9 mPa·s

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Violent reaction with: Reducing agent, Acid, Base, Base, Amines, Heavy metals

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

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10.5. Incompatible materials

Reducing agent, Acid, Base, Base, Amines, Heavy metals

10.6. Hazardous decomposition products

Thermal decomposition

Hazardous decomposition products: Acetophenon, Methan, 2-Phenylisopropanol

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Toxic if inhaled.

Harmful in contact with skin.

Harmful if swallowed.

ATEmix calculated

ATE (oral) 405,2 mg/kg; ATE (dermal) 1263 mg/kg; ATE (inhalation vapour) 3,440 mg/l; ATE (inhalation dust/mist) 0,5740 mg/l

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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
80-15-9	Cumyl hydroperoxide					
	oral	LD50 mg/kg	382	Rat	Am. In. Hyg. Assoc. J. 19: 205-212 (1958	5 rats were exposed to 4 geometrically s
	dermal	LD50 mg/kg	500	Rat	RTECS	
	inhalation (4 h) vapour	LC50	1,4 mg/l	Rat	IUCLID	
	inhalation dust/mist	ATE	0,5 mg/l			
617-94-7	2-phenylpropan-2-ol					
	oral	ATE mg/kg	500			
98-82-8	cumene					
	oral	LD50 mg/kg	2700	Rat	Other company data (1978)	OECD Guideline 401
	dermal	LD50 mg/kg	> 3160	Rabbit	Other company data (1978)	1 New Zealand albino rabbit
	inhalation (4 h) vapour	LC50	39 mg/l	Rat	RTECS	
98-86-2	acetophenone					
	oral	LD50 mg/kg	2081	Rat	Study report (1981)	OECD Guideline 401
	dermal	LD50 mg/kg	3300	Rat	Study report (1978)	OECD Guideline 402
80-43-3	bis(alpha,alpha-dimethylbenzyl) peroxide					
	oral	LD50 mg/kg	>= 2000	Rat	Study report (2000)	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2000)	OECD Guideline 402

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage.
Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer. (cumene)
May damage the unborn child. (bis(alpha,alpha-dimethylbenzyl) peroxide)
Germ cell mutagenicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (Cumyl hydroperoxide)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Cumyl hydroperoxide)

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Aspiration hazard

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

Information on likely routes of exposure

No information available.

Specific effects in experiment on an animal

No information available.

Additional information on tests

No information available.

Practical experience

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
80-15-9	Cumyl hydroperoxide						
	Acute fish toxicity	LC50	3,9 mg/l	96 h	Oncorhynchus mykiss	Study report (1993)	OECD Guideline 203
	Acute crustacea toxicity	EC50 mg/l	18,84	48 h	Daphnia magna	Study report (2010)	OECD Guideline 202
98-82-8	cumene						
	Acute fish toxicity	LC50	4,7 mg/l	96 h	Cyprinodon variegatus	Ecotoxicol. Environ. Saf. 31, 287-289 (1	EPA OTS 797.1400
	Acute algae toxicity	ErC50 mg/l	2,01	72 h	Desmodesmus subspicatus	Study report (2010)	EU Method C.3
	Acute crustacea toxicity	EC50 mg/l	2,14	48 h	Daphnia magna	Study report (2010)	OECD Guideline 202
	Fish toxicity	NOEC mg/l	0,38	28 d	D. rerio and P. promelas	European Chemicals Bureau (2001)	Chronic NOEC was calculated by the rappo
	Crustacea toxicity	NOEC mg/l	0,35	21 d	Daphnia magna	Draft study report (incomplete) (1998)	OECD Guideline 211
	Acute bacteria toxicity	EC50 mg/l ( )	> 2000	3 h	activated sludge of a predominantly domestic sewag	Study report (2010)	EU Method C.11
98-86-2	acetophenone						
	Acute fish toxicity	LC50	162 mg/l	96 h	Pimephales promelas	Study report (1984)	OECD Guideline 203
	Acute algae toxicity	ErC50	40 mg/l	72 h	Raphidocelis subcapitata	Study report (2003)	OECD Guideline 201
	Acute crustacea toxicity	EC50	528 mg/l	48 h	Daphnia magna	Environ Sci Technol 27: 2801-2806 (1993)	In the frame of determining body burden,
80-43-3	bis(alpha,alpha-dimethylbenzyl) peroxide						
	Acute algae toxicity	ErC50 mg/l	> 20	72 h	Raphidocelis subcapitata	Study report (2000)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	Study report (2010)	OECD Guideline 202
	Crustacea toxicity	NOEC mg/l	0,177	21 d	Daphnia magna	REACh Registration Dossier	OECD Guideline 211

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
80-15-9	Cumyl hydroperoxide	1,6
98-82-8	cumene	3,55
98-86-2	acetophenone	42,8
80-43-3	bis(alpha,alpha-dimethylbenzyl) peroxide	5,6

BCF

CAS No	Chemical name	BCF	Species	Source
80-15-9	Cumyl hydroperoxide	9		Unpublished calculat
98-82-8	cumene	94,69		Unpublished calculat
98-86-2	acetophenone	0,475		Unpublished calculat
80-43-3	bis(alpha,alpha-dimethylbenzyl) peroxide	493	Oncorhynchus mykiss	Study report (2022)

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 3109
14.2. UN proper shipping name:	ORGANIC PEROXIDE TYPE F, LIQUID (Cumyl hydroperoxide, 88%)
14.3. Transport hazard class(es):	5.2
14.4. Packing group:	-
Hazard label:	5.2 (8)
Classification code:	P1
Special Provisions:	122 274
Limited quantity:	125 mL

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Transport category:	2
Hazard No:	539
Tunnel restriction code:	D

Other applicable information (land transport)

E0

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN 3109
14.2. UN proper shipping name:	ORGANIC PEROXIDE TYPE F, LIQUID (Cumyl hydroperoxide, 88%)
14.3. Transport hazard class(es):	5.2
14.4. Packing group:	-
Hazard label:	5.2 (8)
Classification code:	P1
Special Provisions:	122 274
Limited quantity:	125 mL

Other applicable information (inland waterways transport)

E0

Marine transport (IMDG)

14.1. UN number or ID number:	UN 3109
14.2. UN proper shipping name:	ORGANIC PEROXIDE TYPE F, LIQUID (Cumyl hydroperoxide, 88%)
14.3. Transport hazard class(es):	5.2
14.4. Packing group:	-
Hazard label:	5.2 (8)
Marine pollutant:	p
Special Provisions:	122, 274
Limited quantity:	125 mL
EmS:	F-J, S-R
Segregation group:	peroxides

Other applicable information (marine transport)

E0

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 3109
14.2. UN proper shipping name:	ORGANIC PEROXIDE TYPE F, LIQUID (Cumyl hydroperoxide, 88%)
14.3. Transport hazard class(es):	5.2
14.4. Packing group:	-
Hazard label:	5.2 (8)
Special Provisions:	A20 A150 A802
Limited quantity Passenger:	Forbidden
IATA-packing instructions - Passenger:	570
IATA-max. quantity - Passenger:	10 L
IATA-packing instructions - Cargo:	570
IATA-max. quantity - Cargo:	25 L

Other applicable information (air transport)

E0

: Forbidden

14.5. Environmental hazards

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ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: (Cumyl hydroperoxide, 88%)

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
bis(alpha,alpha-dimethylbenzyl) peroxide

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 30, Entry 40, Entry 75

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
Cumyl hydroperoxide
2-phenylpropan-2-ol
cumene
acetophenone

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,6,7,8,9,10,11,12,13,14,15.

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Abbreviations and acronyms

Org. Perox
Flam. Liq: Flammable liquid
Self-react
Acute Tox: Acute toxicity
Asp. Tox: Aspiration hazard
Skin Corr: Skin corrosion
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Eye Irrit: Eye irritation
Carc: Carcinogenicity
Repr: Reproductive toxicity
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Chronic: Chronic aquatic hazard
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:Règlement international conernat le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Refulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effectice concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

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Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Self-react. F; H242	On basis of test data
Carc. 1B; H350	Calculation method
Repr. 1B; H360D	Calculation method
Acute Tox. 3; H331	Calculation method
Acute Tox. 4; H312	Calculation method
Acute Tox. 4; H302	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
STOT SE 3; H335	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H302+H312	Harmful if swallowed or in contact with skin.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H360D	May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH018	In use may form flammable/explosive vapour-air mixture.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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