

SAFETY DATA SHEET

Acc. to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 2015/830 for

CUMENE

Prepared

2010-11-25

DOMO Caproleuna GmbH
Bau 3101 – Am Haupttor
D-06237 Leuna

Updated

2020-04-13

Rev. 5

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Chemical name: Cumene
Trade name: Cumene
EINECS No.: 202-704-5
REACH Registration No.: 01-2119473983-24-XXXX

1.2 Relevant identified uses of the substance or mixture and uses advised againstIdentified uses

Raw material for the production of phenol and acetone. By sulphonation of cumene solubilizers for the production of surfactants are obtained.

- Manufacture, processing and distribution of substances and mixtures*
- Use in coatings

* Examples for processing

- use as intermediate
- use as monomer etc.
- use as solvent
- use for the manufacturing of resins

Uses advised against

not required

1.3 Details of the supplier of the safety data sheet

Manufacturer/supplier: DOMO Caproleuna GmbH
Bau 3101 – Am Haupttor
D-06237 Leuna

National Contact: Ullrich Naujoks

E-mail (expert): msds@domo.org

Information: Business Unit Cumol-Phenol-Cyclohexanon
(Monday-Friday, 7:00–16:00) Tel. + 49 (0) 3461 / 43-24 29
Fax + 49 (0) 3461 / 43-22 26

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1.4 Emergency telephone number

Europe	+44 1235 239670	[Carechem 24]
Middle East/Africa	+44 1235 239671	[Carechem 24]
North/South America	+1 215 207 0061	[Carechem 24]
East/South East Asia	+65 3158 1195	[Carechem 24]

*country specific emergency telephone numbers in section 16

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture (CLP)**

Hazard classes/categories	Hazard statement	Classification procedure
Flammable liquids, category 3	H226	test result
Danger of aspiration, category 1	H304	test result
Specific target organ toxicity (single exposure), category 3, respiratory irritation	H335	test result
Aquatic chronic, category 2	H411	test result

2.2 Label elementsLabeling (CLP)

Pictogram:

Signal word: **DANGER**Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Safety precautions

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.

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P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: use alcohol-resistant foam, spray water, CO ₂ or ABC powder for extinction.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with item 13.

2.3 Other hazards

Higher doses may have a narcotic effect. High skin absorption hazard, gradual formation of peroxide on contact with air. The vapours may form flammable mixtures with air. The vapours are heavier than air.

SECTION 3: Composition/information on ingredients**3.1 Substances**Chemical Characterisation

Cumene	
CAS Number:	98-82-8
EC No. (EINECS):	202-704-5
Index No.:	601-024-00-X
Harmonized System Code:	2902 70 90
REACH Registration No.:	01-2119473983-24-XXXX
Purity:	99.9 – 99.99 mass%
Formula:	C ₆ H ₅ -CH-(CH ₃) ₂
Stabilizers:	none

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Dangerous contaminations

Substance	CAS Number	Contamination	Formula
Propylbenzene	103-65-1	< 0.05 %	C ₉ H ₁₂
Ethylbenzene	101-41-4	< 0.04 %	C ₈ H ₁₀
tert-Butylbenzene	98-06-6	< 0.01 %	C ₁₀ H ₁₄

SECTION 4: First-aid measures**4.1 Description of first-aid measures**General Remarks

Remove injured person from the danger zone to fresh air. If breathing and in case of vomiting or impending unconsciousness put the injured in the recovery position. Get medical attention to the accident scene.

After inhalation

Move victim to fresh air. In case of respiratory tract irritation, consult a physician.

After skin contact

After contact with skin, wash immediately with plenty of water. Remove contaminated clothing. In case of skin reactions, consult a physician.

After eye contact

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Drink large quantities of water. Do not induce vomiting. Danger of aspiration! Seek medical attention.

Practical experience

Applying Previn (Fa. Prevor) as a first-aid medicine as quickly as possible to the untreated contaminated parts of the skin or eyes will result in a significant alleviation of the symptoms (concerning pain, reddening, formation of blisters). In the further course of healing no skin damage/formation of scars occurred.

4.2 Most important symptoms and effects, both acute and delayed

Burning eyes and skin. Dizziness, fatigue, vomiting, abdominal pain, spasms, apnoea.

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically. Drowsiness, choking fits and cramps are possible. In case of respiratory irritation, induce inhalative cortisone therapy. If ingested, use activated carbon and saline laxatives.

SECTION 5: *Firefighting measures***5.1 Extinguishing media**Suitable extinguishing media

Water (water spray - no water jet), dry chemical, CO₂; fight larger fires by using alcohol-resistant foam or water mist.

Extinguishing media which must not be used for safety reasons

Foam that is not alcohol-resistant. Do not use water jets (risk of dispersion).
High power water jet.

5.2 Special hazards arising from substance or mixture

Vapours can form explosive mixtures with air.

In case of fire the following may be liberated: Traces of incompletely burned carbon compounds, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

In the event of release of larger quantities, wear self-contained breathing apparatus.

5.4 Additional information

Heating the substance causes pressure increase, resulting in risk of bursting and explosion. Use fine water spray to cool endangered containers by means of water spray. Collect contaminated fire extinguishing water separately. Do not dispose of into sewerage system.

SECTION 6: *Accidental release measures***6.1 Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Avoid contact with the substance.

Provide adequate ventilation. Do not breathe vapours. Avoid contact with eyes. Wear personal protection equipment. Isolate the danger zone. Stop running engines and motors.

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6.2 Environmental precautions

Prevent from entering the sewerage system, soil, ground water or surface waters. Danger of explosion. In case of release, notify competent authorities.

6.3 Methods and material for containment and cleaning up

Flush with plenty of water. Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Final cleaning.

6.4 Reference to other sections

Not applicable

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

Provide adequate ventilation, and local exhaust as needed. Do not breathe vapours. Avoid contact with skin and eyes.

Make sure that the processing machines are well equipped with suction and ventilation systems. Do not use air pressure to deliver. Avoid splashing.

Precautions against fire and explosion

Keep away from sources of ignition. Isolate the danger zone. Take precautionary measures against static discharges. Store in a cool and well-ventilated location.

Prevent from entering the sewerage system, soil, ground water or surface waters.

7.2 Conditions for safe storage, including any incompatibilitiesTechnical measures and storage conditions

Keep containers tightly closed and at a temperature between 15 °C and 25 °C.

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

Only use solvent-resistant containers. Take precautions against electro-static charging.

Unsuitable materials: Rubber.

Hints on joint storage

Do not store together with food. Separate from oxidizing, spontaneously flammable substances and flammable solid sub-stances.

Additional information

Product is not intended for consumer use.

Keep locked and only accessible for trained staff. If possible, store under nitrogen. Store in tightly sealed containers to avoid the formation of peroxides.

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Storage class (TRGS 510): 3

7.3 Specific end uses

For industrial use

No.	Usage description
1	Manufacture, processing and distribution of substances and mixtures
2	Use in coatings

For professional use

No.	Usage description
1	Use in laboratories
2	Use in coatings

Exposure scenarios were prepared for the different uses. See Annex 1.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Type (country of origin)	Limit value
IOELV STEL (EU)	Skin 250 mg/m ³ ; 50 ppm
IOELV TWA (EU)	Skin 100 mg/m ³ ; 20 ppm
AGW (DE)	Skin 100 mg/m ³
BGW (DE)	2 mg/l
WEL-TWA (GB)	125 mg/m ³ ; 25 ppm
WEL-STEL (GB)	250 mg/m ³ ; 50 ppm

DNEL/DMEL and PNEC parameters

DNEL/DMEL	Exposure path	Exposure frequency	Critical component
Workers industry/professional	dermal	short term	Cumene
15 mg/kg bw/day		long term	
50 ppm	inhalation	short term	
20 ppm		long term	

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Exposure path	PNEC
Water (freshwater)	0.035 mg/l
Water (marine water)	0.0035 mg/l
Water (intermittent release)	0.012 mg/l
Sediment (freshwater)	3.22 mg/kg dwt
Sediment (marine water)	0.322 mg/kg dwt
Soil	0.624 mg/kg dwt
Sewage treatment plant	200 mg/l

8.2 Exposure controls

Explosion protection required. Provide good ventilation and/or an exhaust system in the work area.

Suitable technical control devices

All information for relevant exposure scenarios including operational conditions and risk management measures are listed in "Annex: Worker Exposure and Risk Assessment".

Respiratory protection

Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A (= against vapours of organic substances) according to EN 141.

Hand protection

Protective gloves according to EN 374.

Glove material: Fluororubber (Viton) - Layer thickness: 0.70 mm.

Breakthrough time: > 480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Unsuitable materials: natural rubber, nitrile rubber, butyl caoutchouc (butyl rubber).

Eye protection

Tightly fitting safety glasses according to EN 166.

Body protection

Wear suitable protective clothing. Safety shoes according to EN 345-347.

In case of handling larger quantities: flame-retardant protective clothing, antistatic.

General Protection and Hygiene Measures

Do not breathe vapours. Avoid contact with skin, eyes, and clothing. Immediately remove contaminated clothing, shoes or stockings. Wash hands before breaks and after work.

When using do not eat, drink or smoke.

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Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

See exposure scenarios in Annex.

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

Physical state: liquid
 Colour: colourless, clear
 Odour: aromatic, like chloroform

Physical properties

	Unit	Value	Method	Remark
Melting point/range	°C	-96		at 1013 hPa
Boiling point/range	°C	153		at 1013 hPa
Flash point	°C	31		
Ignition temperature	°C	424		at 1010 hPa
Vapour pressure	hPa	4.96 26.6		at 20°C at 52°C
Explosion limits				
lower (LEL)	vol%	0.80		
upper (UEL)	vol%	6.00		

Chemical properties

	Unit	Value	Method	Remark
Density	kg/m ³	862		at 20 °C
Water solubility	g/l	0.05		at 25 °C
Dyn. Viscosity	mPa*s	0.79		at 20 °C

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9.2 Other information

	Unit	Value	Method	Remark
Partition coefficient n octanol/water (logPow)		3.55		
Odour threshold	mg/m ³	0.04-6.4		

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

Formation of peroxides and hydroperoxides possible on contact with the air.

10.2 Chemical stability

Formation of peroxides and hydroperoxides possible on contact with the air.

10.3 Possibility of hazardous reactions

Formation of peroxides and hydroperoxides possible on contact with the air. May react violently with strong oxidisers.

10.4 Conditions to avoid

Flammable. Keep away from heat sources, sparks and open flames.

In case of warming: On contact with air, potentially explosive mixtures may develop.

Concentrated vapours are heavier than air. Ignition by hot surfaces, sparks and open flames.

If used for the purpose intended, the product is stable and does not decompose.

10.5 Incompatible materials

Violent reaction with strong acids and strong oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition above 400 °C. If in contact with the air, possible formation of peroxides and hydroperoxides. In case of fire the following may be liberated: Traces of incompletely burned carbon compounds, carbon monoxide and carbon dioxide.

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SECTION 11: Toxicological information**11.1 Information on toxicological effects**Acute toxicity

Toxicity	Effective dose	Species	Method	Remark
oral	LD50 2260 mg/kg	Rat		Experimental determination
dermal	LD50 > 3160 mg/kg	Rabbit		Experimental determination
by inhalation	LC50 > 17600 mg/m ³ /6 h	Rat		Experimental determination

Specific symptoms

Burning eyes and skin. Dizziness, fatigue, vomiting, abdominal pain, spasms, apnea.

After inhalation: Irritant (> 1480 ppm).
Symptoms: Mucous membrane irritation, coughing, shortage of breath.
After ingestion: Harmful: May cause lung damage if swallowed.
After skin contact: Rabbit: Not an irritant (OECD 404).
After eye contact: Rabbit: Not an irritant (OECD 405).

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitisation

Sensitization: not sensitising (OECD 406).

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

Germ cell mutagenicity

Bacterial mutagenicity: negative (OECD 471).

Chromosomal aberrations mammalian cells in-vitro: negative (OECD 473).

Gene-mutations mammalian cells in-vitro: negative (OECD 476).

Unscheduled DNA Synthesis (UDS) mammalian cells in-vitro: negative (OECD 482).

Micronucleus test: in-vivo (Mouse): negative (OECD 474).

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

Carcinogenicity

At long term exposure rat/mouse: negative (OECD 451).

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

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Reproductive toxicity

Effects on fertility: negative

Developmental toxicity/teratogenicity (Rat/Mouse): negative (OECD 414).

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

STOT SE

STOT SE 3, H335: May cause respiratory irritation.

STOT RE

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

Aspiration hazard

Asp. Tox. 1, H304: May be fatal if swallowed and enters airways.

11.2 Other information

Toxicity in case of repeated exposure (sub-acute, sub-chronic, chronic)

Toxicity	Effective dose	Species	Duration of exposure	Affected organs	Method
chronic oral	22.8, 224.8 and 535.8 mg/kg bw/day	Rat	28 days	No effects observed	
chronic inhalation	NOAEC 612 mg/m ³	Rat	90 days	Modifications on kidneys and liver	similar to OECD 413

Toxicokinetics, metabolism and distribution*Non-human toxicological data*

Method: Animal test/rat
 Dose: 1350 mg/kg bw, 33 mg/kg bw
 33 mg/kg bw
 100, 500, 1200 ppm
 Administration: oral/iv/by inhalation

Results:

- Absorption: Respiratory tracts
- Distribution: Bloodstream
- Metabolism: Metabolisation through 2-phenyl-2-propanol, glucuronides, 2-phenylpropan-1-ol and alpha-phenylpropanoic acid
- Excretion/elimination: Urine

Human toxicological data

No studies on human toxicity available.

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SECTION 12: Ecological information**12.1 Toxicity**Acute ecotoxicity

Aquatic toxicity	Species	Effective dose	Exposure time
Fish toxicity	freshwater species (Oncorhynchus mykiss)	LC50 4.8 mg/l	96 h
	marine species (Cyprinodon variegatus)	LC50 4.7 mg/l	96 h
Daphnia toxicity	freshwater species (Daphnia magna (big water flea))	EC50 2.14 mg/l	48 h
	marine species (Mysidopsis bahia)	EC50 1.2 mg/l	96 h
Algae toxicity	freshwater species (Desmodesmus subspicatus)	EC50 2.01 mg/l	72 h
Bacterial toxicity	activated sludge	EC 10: > 2000 mg/l	3 h

Long term ecotoxicity

Aquatic toxicity	Species	Effective dose	Exposure time
Fish toxicity	Danio rerio	NOEC: 0.38 mg/l	28 d
Daphnia toxicity	Daphnia magna	NOEC: 0.35 mg/l	21 d
Algae toxicity	Desmodesmus subspicatus	NOEC: 1.49 mg/l	72 h

Additional information

Acute plant toxicity: NOEC/EC50 Sorghum bicolor, Helianthus annuus, Phaseolus aureus: > 1000 mg/kg soil/21d.

Acute and subchronic bird toxicity: LC50 > 98 mg/kg/18h.

12.2 Persistence and degradabilityAbiotic degradability

Not biodegradable under anaerobic conditions by non-adapted micro-organisms

Atmospheric compartment

- Indirect photodegradation by reaction with OH radicals.
- Half-life time approx. 59 h.

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Compartment water

- Indirect photodegradation by reaction with OH radicals.
- Half-life time approx. 5.1 h.
- Hydrolysis not to be expected.

Biotic degradability

70 %/20d in activated sludge (APHA).

Product is readily biodegradable.

2 %/60d anaerobic. Not biodegradable. (BOD-test, APHA)

Effects in sewage plants

Bacterial toxicity:

EC 10 activated sludge: > 2000 mg/L/3h

12.3 Bioaccumulative potential

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. Secondary poisoning via the food chain is unlikely to occur.

Bioconcentration factor (BCF) 94.69 (calculated) from measured logPow of 3.5 by BCFBAF V3.00.

12.4 Mobility in soil*Environmental distribution*

Adsorption/Desorption soil:

Adsorption coefficient (Koc): 884 l/kg at 20 °C.

The soil sorption coefficient indicates a high sorption potential onto soil organic matter.

Evaporation rate

H = 1010.8 Pa * m³/mol at 20 °C. The calculated Henry's Law constant indicates a high volatility from water.

Known or predicted distribution to environmental compartments: 99.7 % Air.

12.5 Results of PBT and vPvB assessment

Based on the available data for biotic and abiotic degradation, bioaccumulation and toxicity this substance is not categorized as PBT or vPvB.

12.6 Other adverse effectsGeneral information

Do not allow to enter into ground-water, surface water or drains.

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SECTION 13: Disposal considerations

13. Waste treatment methods

Product may be re-used after work-up.

Waste key number

For unused product: 070108*





For uncleaned packaging: 150110*

Disposal

Product and packaging waste must not be disposed of together with domestic waste. Do not allow to enter sewerage systems.

Disposal in accordance with applicable legal regulations observing national and regional regulations. Recycle product residues if possible, otherwise take to hazardous waste incineration.

SECTION 14: Transport information

	ADR/RID	IMDG
14.1 UN Number	1918	1918
14.2 UN proper shipping name	ISOPROPYLBENZENE	ISOPROPYLBENZENE
14.3 Transport hazard classes	3 	3 
14.4 Packaging group	III	III
14.5 Environmental hazards	Hazardous to the environment 	Marine pollutant 
14.6 Special precautions for the user	see remark	see remark
Additional information	Risk No.: 30 Tunnel restriction code: D/E	EmS: F-E, S-E Lowest flash point: 31 °C c.c.

Remark

For transport in road tankers or tank cars the use of PTFE seals is recommended.

ICAO/IATA and ADN: Not tested.

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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/Legislation for the substance or mixture**National regulations - Germany

Make sure to comply with work restrictions pursuant to the Youth Employment Protection Act and the regulation on legal protection of working mothers (EC 92/85/EEC).

Pregnancy group Y (Germany) - risk of harmful effects to the foetus are not to be expected if the occupational exposure limit (German Arbeitsplatzgrenzwert) and the biological limit value (BLV) are observed.

Storage class (TRGS 510)

3 - Flammable liquids

Water hazard class (acc. to AwSV)

WGK 1 = slightly hazardous to water

TA Luft (Technical instructions on air quality control)

No. 5.2.5

Störfallverordnung (Industrial Emergencies Regulation)

Annex 1, List of Substances, column 1, No. 1.2.5 (P5a-c; flammable liquids) and No. 1.3.2 (E2; aquatic hazardous, category chronic2)

15.2 Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Wording of H and P phrases (number and complete text)**

See item 2

Training hints

Training according to TRGS 555.

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Recommended restrictions for use

See exposure scenarios in the annex.

Additional information

This safety data sheet contains data in accordance with German legislation, e.g. indicated limit values.

The recipient alone is responsible for ascertaining the relevant national limit values.

The above details are based on our present status of know-how. The information is intended to describe our product in terms of safety requirements and thus shall not guarantee certain properties. It does not create a contractual legal relationship. The contents of the German version of this safety data sheet are binding. No warranty is given for the correctness of the information in other languages.

Further information (sources)

e.g. DGUV 113-001, TRGS 727, TRGS, 510, TRGS 900, TRGS 903, Römpf 's Chemielexikon; 9. revision)

Data sources

REACH Registration Dossier and Stoffsicherheitsbericht Cumene.
Phenol & Derivate-REACH Consortium, 2010.

Emergency telephone numbers (country specific)

Global/english speaking countries	+44 1865 407333
Country	Emergency telephone number
France	+33 1 72 11 00 03
Germany	+49 89 220 61012 0800 000 7801 (toll-free, access from Germany only)
Spain	+34 91 114 2520
Italy	+39 02 3604 2884
Netherlands	+31 10 713 8195
Turkey	+90 212 375 5231
Norway	+47 2103 4452
Greece	+30 21 1198 3182
Portugal	+351 30880 4750
Denmark	+45 8988 2286
Sweden	+46 8 566 42573
Poland	+48 22 307 3690
Czech Republic	+420 228 882 830
Finland	+358 9 7479 0199
Bahrain/Middle East	+973 1619 8321

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Africa/South Africa	+27 21 300 2732
United States	+1 866 928 0789 (toll-free)
Canada	+1 800 579 7421 (toll-free)
United States and Canada	+1 202 464 2554
Mexico	+52 55 5004 8763
Brazil	+55 11 3197 5891
Chile	+56 2 2582 9336
Colombia	+57 1 508 7337
Argentina	+54 11 5984 3690
Sri Lanka	+65 3158 1195
Taiwan	+886 2 8793 3212
Japan	+81 3 4578 9341
Indonesia	007 803 011 0293 (toll-free; access only from Indonesia)
Malaysia	+60 3 6207 4347
Thailand	001 800 120 666 751 (toll-free; access only from Thailand)
India	+65 3158 1198 000 800 100 7479 (toll-free; access only from India)
Pakistan	+65 3158 1329
Bangladesh	+65 3158 1200
Philippines	+63 2 8231 2149
Vietnam	+84 28 4458 2388
South Korea	+82 2 3479 8401
Singapore	+65 3165 2217
Australia	+61 2 8014 4558 18000 74234 (toll-free; access only from Australia)
New Zealand	+64 9 929 1483 0800 446 881 (toll-free; access only from New Zealand)

General revision

Section 1.4/section 16: Update of emergency telephone numbers (regional and country specific)