

Cobra Clean B.V.
Lisserbroek

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

1.1	Product identifier	Cleaner Spray Article number: CBS-686
1.2	Relevant identified uses of the substance or mixture and uses advised against	
1.2.1	Relevant uses	Solvent
1.2.2	Uses advised against	None known.
1.3	Details of the supplier of the safety data sheet	
	Company	Cobra Clean B.V. Tweelingenlaan 4 7323 AM Apeldoorn
	Address enquiries to	www.cobraclean.nl
	Technical information	E-mail: info@cobraclean.nl
	Safety Data Sheet	info@cobraclean.nl info@cobraclean.nl
1.4	Emergency telephone number	
	Advisory body	+31 6 20951195

SECTION 2: Hazards identification

2.1	Classification of the substance or mixture [REGULATION (EC) No 1272/2008]	Flam. Liq. 2: H225 Highly flammable liquid and vapour. Eye Irrit. 2: H319 Causes serious eye irritation. STOT SE 3: H336 May cause drowsiness or dizziness.
2.2	Label elements	The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).
	Hazard pictograms	 
	Signal word	DANGER
	Contains:	Acetone Butanone
	Hazard statements	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
	Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P261 Avoid breathing vapours / spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection / 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.
P337+P313 If eye irritation persists: Get medical advice / attention.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/national regulation.
EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Special labelling
Other hazards

Physico-chemical hazards Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
Environmental hazards Does not contain any PBT or vPvB substances.
Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%] Substance

50 - 90 Acetone

CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8, Reg-No.: 01-2119471330-49-XXXX
GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336

10 - 25 Butanone

CAS: 78-93-3, EINECS/ELINCS: 201-159-0, EU-INDEX: 606-002-00-3, Reg-No.: 01-2119457290-43-XXXX
GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336

2,5 - 10 Ethyl acetate

CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX
GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336

Comment on component pa Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.
Inhalation Ensure supply of fresh air.
In the event of symptoms seek medical treatment.
Skin contact In case of contact with skin wash off with warm water.
Consult a doctor if skin irritation persists.
Eye contact In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion Consult a doctor immediately.
Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.

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4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Vertigo
Drowsiness

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide.
Water spray jet.
Dry powder.
Alcohol-resistant foam.
Full water jet.

Extinguishing media that must not
be used

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within
the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
Do not discharge into the drains. Risk of explosion!

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid spilling or spraying in enclosed areas.
Keep away from all sources of ignition - Refrain from smoking.
Vapours can form an explosive mixture with air.
Take precautionary measures against static discharges.
Do not eat, drink, smoke or take drugs at work.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.
Do not store together with oxidizing agents.
Keep container in a well-ventilated place.
Keep in a cool place, heat causes increase in pressure and risk of bursting.
Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational
exposure limits to be monitored (GB)

Substance

Acetone

CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8, Reg-No.: 01-2119471330-49-XXXX

Long-term exposure: 500 ppm, 1210 mg/m³

Short-term exposure (15-minute): 1500 ppm, 3620 mg/m³

Ethyl acetate

CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX

Long-term exposure: 200 ppm, 730 mg/m³

Short-term exposure (15-minute): 400 ppm, 1460 mg/m³

Butanone

CAS: 78-93-3, EINECS/ELINCS: 201-159-0, EU-INDEX: 606-002-00-3, Reg-No.: 01-2119457290-43-XXXX

Long-term exposure: 200 ppm, 600 mg/m³, Sk, BmgV

Short-term exposure (15-minute): 300 ppm, 899 mg/m³

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Ingredients with occupational
exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES

Acetone

CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8, Reg-No.: 01-2119471330-49-XXXX
Eight hours: 500 ppm, 1210 mg/m³

Ethyl acetate

CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX
Eight hours: 200 ppm, 734 mg/m³
Short-term (15-minute): 400 ppm, 1468 mg/m³

Butanone

CAS: 78-93-3, EINECS/ELINCS: 201-159-0, EU-INDEX: 606-002-00-3, Reg-No.: 01-2119457290-43-XXXX
Eight hours: 600 mg/m³
Short-term (15-minute): 300 ppm, 900 mg/m³

DNEL

Substance

Butanone, CAS: 78-93-3

Industrial, dermal, Long-term - systemic effects: 1161 mg/kg bw/day.

Industrial, inhalative (vapor), Long-term - systemic effects: 600 mg/m³.

general population, dermal, Long-term - systemic effects: 412 mg/kg bw/day.

general population, inhalative (vapor), Long-term - systemic effects: 106 mg/m³.

general population, oral, Long-term - systemic effects: 31 mg/kg bw/day.

Ethyl acetate, CAS: 141-78-6

Industrial, dermal, Long-term - systemic effects: 63 mg/kg bw/d.

Industrial, inhalative, Long-term - systemic effects: 734 mg/m³.

Industrial, inhalative, Long-term - local effects: 734 mg/m³.

Industrial, inhalative, Acute - systemic effects: 1468 mg/m³.

Industrial, inhalative, Acute - local effects: 1468 mg/m³.

general population, inhalative, Long-term - systemic effects: 367 mg/m³.

general population, inhalative, Acute - local effects: 734 mg/m³.

general population, inhalative, Long-term - local effects: 367 mg/m³.

general population, oral, Long-term - systemic effects: 4,5 mg/kg bw/d.

general population, dermal, Long-term - systemic effects: 37 mg/kg bw/d.

general population, inhalative, Acute - systemic effects: 734 mg/m³.

Acetone, CAS: 67-64-1

Industrial, inhalative, Long-term - local effects: 2420 mg/m³.

Industrial, dermal, Long-term - systemic effects: 186 mg/kg bw/d.

Industrial, inhalative, Long-term - systemic effects: 1210 mg/m³.

general population, dermal, Long-term - systemic effects: 62 mg/kg bw/d.

general population, oral, Long-term - systemic effects: 62 mg/kg bw/d.

general population, inhalative, Long-term - systemic effects: 200 mg/m³.

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PNEC

Substance

Butanone, CAS: 78-93-3

soil, 22,5 mg/kg.

sediment (seawater), 284,74 mg/kg.

sediment (freshwater), 284,74 mg/kg.

sewage treatment plants (STP), 709 mg/L.

seawater, 55,8 mg/L.

freshwater, 55,8 mg/L.

oral (food), 1000 mg/kg.

Ethyl acetate, CAS: 141-78-6

seawater, 0,026 mg/l.

sediment (freshwater), 1,25 mg/kg.

sediment (seawater), 0,125 mg/kg.

freshwater, 0,26 mg/l.

soil, 0,24 mg/kg dw.

oral (food), 200 mg/kg.

sewage treatment plants (STP), 650 mg/l.

Acetone, CAS: 67-64-1

sediment (seawater), 3,04 mg/kg dwt.

freshwater, 10,6 mg/l.

sediment (freshwater), 30,04 mg/kg dwt.

soil, 29,05 mg/kg dwt.

sewage treatment plants (STP), 100 mg/l.

seawater, 1,06 mg/l.

8.2 Exposure controls

Additional advice on system design

Ensure adequate ventilation on workstation.

Eye protection

Safety glasses. (EN 166:2001)

Hand protection

The details concerned are recommendations. Please contact the glove supplier for further information.

In full contact:

Butyl rubber, >120 min (EN 374-1/-2/-3).

In splash contact:

Nitrile rubber, >480 min (EN 374-1/-2/-3).

Skin protection

Solvent-resistant protective clothing (EN 340)

Other

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.

Avoid contact with eyes and skin.

Do not inhale aerosols.

Respiratory protection

Respiratory protection mask in the event of high concentrations.

Short term: filter apparatus, filter A. (DIN EN 14387)

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Thermal hazards not applicable
Delimitation and monitoring of the environmental exposition See SECTION 6+7.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	colourless
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	> 60
Flash point [°C]	< 0
Flammability (solid, gas) [°C]	200°C
Lower explosion limit	0,6 Vol.-%
Upper explosion limit	15 Vol.-%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	247 hPa (20°C)
Density [g/ml]	0,798 (20°C)
Bulk density [kg/m ³]	not applicable
Solubility in water	partially miscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	No information available.
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
Reactions with oxidizing agents.

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10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Use solvent-resistant equipment.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product

dermal, Based on the available information, the classification criteria are not fulfilled.:

inhalative, Based on the available information, the classification criteria are not fulfilled.:

oral, Based on the available information, the classification criteria are not fulfilled.:

Substance

Butanone, CAS: 78-93-3

LD50, dermal, Rabbit: > 5000 mg/kg (Lit.).

LD50, oral, Rat: 3300 mg/kg (Lit.).

LC50, inhalative, Rat: > 20 mg/l/4h (Lit.).

Ethyl acetate, CAS: 141-78-6

LD50, dermal, mouse: 20000 mg/kg.

LD50, oral, Rat: 5620 mg/kg.

LC50, inhalative, Rat: 50 mg/l (4 h).

Acetone, CAS: 67-64-1

LD50, dermal, Rabbit: > 15800 mg/kg.

LD50, oral, Rat: 5800 mg/kg (OECD 401).

LC50, inhalative, Rat: 76 mg/l (4h).

Serious eye damage/irritation

Toxicological data of complete product are not available.

Irritant

Calculation method

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — single exposure

Toxicological data of complete product are not available.

Vapours may cause drowsiness and dizziness.

Calculation method

Specific target organ toxicity — repeated exposure

Based on the available information, the classification criteria are not fulfilled.

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

Aspiration hazard

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

General remarks

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in medicinal professions, experts for occupational health and safety and toxicologists.

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SECTION 12: Ecological information

12.1 Toxicity

Product

Based on the available information, the classification criteria are not fulfilled.:

Substance

Butanone, CAS: 78-93-3

LC50, (48h), *Leuciscus idus*: > 100 mg/l (Lit.).

EC50, (48h), *Daphnia magna*: > 100 mg/l (Lit.).

Ethyl acetate, CAS: 141-78-6

LC50, (96h), *Salmo gairdneri*: 230 mg/l.

LC50, (96h), *Pimephales promelas*: 230 mg/l.

EC50, (48h), *Daphnia magna*: 164 mg/l.

EC50, (48h), Algae: 5600 mg/l.

Acetone, CAS: 67-64-1

LC50, (48h), *Daphnia pulex*: 8800 mg/l.

LC50, (96h), *Oncorhynchus mykiss*: 5540 mg/l.

NOEC, (28d), *Daphnia magna*: 2212 mg/l.

NOEC, (96h), Algae: 430 mg/l.

12.2 Persistence and degradability

Behaviour in environment
compartments

not determined

Behaviour in sewage plant

not determined

Biological degradability

not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

No classification on the basis of the calculation procedure of the preparation directive.

Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

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Product Dispose of as hazardous waste.
Waste no. (recommended) 070604*
Contaminated packaging Uncontaminated packaging may be taken for recycling.
Waste no. (recommended) 150110*


SECTION 14: Transport information

14.1 UN number

Transport by land according to 1993
ADR/RID
Inland navigation (ADN) 1993
Marine transport in accordance with 1993
IMDG
Air transport in accordance with IATA 1993

14.2 UN proper shipping name

Transport by land according to Flammable liquid, n.o.s. (Acetone, Methyl ethyl ketone)
ADR/RID

- Classification Code F1
- Label 

- ADR LQ 11
- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D/E)

Inland navigation (ADN) Flammable liquid, n.o.s. (Acetone, Methyl ethyl ketone)

- Classification Code F1
- Label 

Marine transport in accordance with Flammable liquid, n.o.s. (Acetone, Methyl ethyl ketone)
IMDG

- EMS F-E, S-E
- Label 

- IMDG LQ 11

Air transport in accordance with IATA Flammable liquid, n.o.s. (Acetone, Methyl ethyl ketone)

- Label 

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14.3 Transport hazard class(es)

Transport by land according to ADR/RID	3
Inland navigation (ADN)	3
Marine transport in accordance with IMDG	3
Air transport in accordance with IATA	3

14.4 Packing group

Transport by land according to ADR/RID	II
Inland navigation (ADN)	II
Marine transport in accordance with IMDG	II
Air transport in accordance with IATA	II

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
Air transport in accordance with IATA	no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

No information available.

SECTION 15: Regulatory information

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

EEC-REGULATIONS	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	100%
15.2 Chemical safety assessment	Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)	H336 May cause drowsiness or dizziness. H319 Causes serious eye irritation. H225 Highly flammable liquid and vapour.
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16.2 Abbreviations and acronyms:	ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
	RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
	ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
	ATE = acute toxicity estimate
	CAS = Chemical Abstracts Service
	CLP = Classification, Labelling and Packaging
	DMEL = Derived Minimum Effect Level
	DNEL = Derived No Effect Level
	EC50 = Median effective concentration
	ECB = European Chemicals Bureau
	EEC = European Economic Community
	EINECS = European Inventory of Existing Commercial Chemical Substances
	ELINCS = European List of Notified Chemical Substances
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
	IC50 = Inhibition concentration, 50%
	IMDG = International Maritime Code for Dangerous Goods
	IUCLID = International Uniform Chemical Information Database
	LC50 = Lethal concentration, 50%
	LD50 = Median lethal dose
	LC0 = lethal concentration, 0%
	LOAEL = lowest-observed-adverse-effect level
	MARPOL = International Convention for the Prevention of Marine Pollution from Ships
	NOAEL = No Observed Adverse Effect Level
	NOEC = No Observed Effect Concentration
	PBT = Persistent, Bioaccumulative and Toxic substance
	PNEC = Predicted No-Effect Concentration
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	STP = Sewage Treatment Plant
	TLV®/TWA = Threshold limit value – time-weighted average
	TLV®STEL = Threshold limit value – short-time exposure limit
	VOC = Volatile Organic Compounds
16.3 Other information	vPvB = very Persistent and very Bioaccumulative not determined
Customs Tariff	
Classification procedure	Flam. Liq. 2: H225 Highly flammable liquid and vapour. (Weight of evidence) Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method) STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
Modified position	none

