

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Product name : COMMANDANT CLEANER NO.4
Product code : C40-C45

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

Application : Consumer product (SU21). Polishes and wax blends (PC31).

1.3. Details of the supplier of the safety data sheet

Supplier : Turtle Wax Benelux B.V.
Wageningselaan 6
3903 LA Veenendaal, The Netherlands
Telephone : +31 318 54 65 65
Fax : +31 318 54 65 75
E-mail : msds@turtlewax.ltd.uk
Website : www.valma.eu

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

NL - Telephone : +31 318 54 65 65 (During office hours only)

EMERGENCY TELEPHONE NUMBER (in the UK and Ireland for healthcare professionals only):

National Poisons Information Service +44-844 892 0111 (24/7)

SECTION 2 HAZARDS IDENTIFICATION

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2.1. Classification of the substance or mixture

CLP classification : Flammable liquid, hazard category 3. Specific target organ toxicity after single exposure, category 3. (1272/2008/EC)

Human health hazards : May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking. Contains petroleum distillates, may be harmful when ingested.

Physical/chemical hazards : Flammable.

Environmental hazards : Not classified as dangerous according to statutory EC-Directives.

Other information : Keep out of the reach of children. If swallowed, seek medical advice immediately and show this container or label.

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :



Signal word : Warning

H- and P-phrases : H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.
P101 If medical advice is needed, have product container or label at hand.



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P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 vapour	Avoid breathing vapours.
P271	Use only outdoors or in a well-ventilated area.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal plant.

Additional labelling

- : Contains: Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
- : 8 % of the mixture consists of ingredient(s) of unknown toxicity.

2.3. Other hazards

- Other information : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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3.2. Mixtures

- Product description : Mixture.

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	REACH nr.	OEL
Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Flam. Liq. 3; Asp. Tox. 1; STOT SE 3 H226; H304; H336; EUH066	25 - 50		919-857-5	01-2119463258-33	#
Neuburger siliceous earth ----- -----	25 - 50	1020665-14-8	310-127-6		#
2,2',2''-Nitrilotriethanol ----- -----	1 - < 5	102-71-6	203-049-8	01-2119486482-31	#
Distillates (petroleum), hydrotreated light naphthenic ----- H304	1 - < 5	64742-53-6	265-156-6	01-2119480375-34	
Ammonia Skin Corr. 1B; Aquatic Acute 1 H314; H400	0,1 - < 1	1336-21-6	215-647-6		#
Diatomaceous earth (containing less than 1% quartz) ----- -----	0,1 - < 1	61790-53-2	612-383-7		#

Reference is made to chapter 16 for full text of each relevant H phrase. Substance(s) with an Occupational Exposure Limit are marked with #. Occupational exposure limit(s) are listed in section 8.

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

First aid measures

- Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.



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- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation persists.
- Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor if irritation persists.
- Ingestion : Do not induce vomiting. Give nothing to drink. Do not rinse the mouth. Never give anything by mouth to an unconscious person. Consult a doctor immediately.

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

Effects and symptoms

- Inhalation : May cause headache, drowsiness, dizziness and a feeling of sickness.
- Skin contact : Repeated exposure may cause skin dryness or cracking.
- Eye contact : May cause stinging of eyes and redness.
- Ingestion : May cause a feeling of sickness, vomiting and diarrhoea. May cause lung damage, sore throat and lack of breath.

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

- Note to physicians : None known.

SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO₂). Foam. Dry chemical. Water fog.
- Not suitable : Water jet.

5.2. Special hazards arising from the substance or mixture

- Special exposure hazards : None known.
- Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

- Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Keep away from sources of ignition — No smoking. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

- Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. Large spills: contain with dike.
- Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections



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Reference to other sections : For guidance on selection of personal protective equipment see section 8. For guidance on disposal of spilled material see section 13.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not breathe vapour. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents. Protect from sunlight.

Recommended packaging : Keep only in the original container.

Non recommended packaging : Steel (except stainless steel). Butyl. Rubber. Polystyrene. Ethylene propylene diene monomer.

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Occupational exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments
Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, < 2% aromatics		1200	-	CEFIC-HSPA
Neuburger siliceous earth		0,15	-	Respirable fraction
2,2',2''-Nitrilotriethanol		5	10	-
Ammonia	EC	14	-	-
Diatomaceous earth (containing less than 1% quartz)	GB	1,2	-	Respirable dust
Mineral oil	GB	-	-	-
Mineral oil		1	3	MAC: NO, SV, LT

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Dermal				300 mg/kg bw/day
2,2',2''-Nitrilotriethanol	Inhalation				1500 mg/m ³
	Dermal				6,3 mg/kg bw/day
Ammonia	Inhalation			5 mg/m ³	5 mg/m ³
	Dermal		6,8 mg/kg bw		

Derived no-effect level (DNEL) for consumers:



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Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Dermal				300 mg/kg bw/day
	Inhalation				900 mg/m3
2,2',2''-Nitrilotriethanol	Oral				300 mg/kg bw/day
	Dermal				3,1 mg/kg bw/day
	Inhalation			1,25 mg/m3	1,25 mg/m3
	Oral				13 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
2,2',2''-Nitrilotriethanol	Water	0,32 mg/l	0,032 mg/l	
	Sediment	1,7 mg/kg	0,17 mg/kg	
	Intermittent water			5,12 mg/l
	STP			10 mg/l
Ammonia	Soil			0,151 mg/kg
	Water	0,0011 mg/l		

8.2. Exposure controls

- Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.
 Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

- Body protection : Use of specific protective industrial clothing is not required under normal conditions of use. In case of large scale exposure wear suitable protective clothing, overalls or suit, and similar boots. Suitable material: nitril. Indication of permeation breakthrough time: not permeable.
- Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type AK (brown/green), class I or higher on e.g. a facemask in accordance with EN 140.
- Hand protection : Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: nitril. ± 0,5 mm. Indication of permeation breakthrough time: not permeable.
- Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- Appearance : Liquid.
- Colour : Beige
- Odour : Characteristic.
- Odour threshold : Not known.
- pH : 8,5
- Solubility in water : Not soluble.
- Partition coefficient (n-octanol/water) : Not applicable.
- Flash point : 48 °C Closed Cup (ISO 2719, EN 11, DIN 51758, ASTM D 93)
- Flammability (solid, gas) : Not applicable. Liquid. See flashpoint.
- Auto ignition temperature : > 200 °C
- Boiling point/boiling range : 100 °C
- Melting point/melting range : < 0 °C
- Explosive properties : None known. Does not contain explosives.



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Explosion limits (in air)	: Not known.	Lower explosion limit in air (%): 0,6 (Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, < 2% aromatics)
	:	Upper explosion limit in air (%): 7
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not known.	
Viscosity (23°C)	: Not known.	
Viscosity (40°C)	: 15000 mm ² /sec	
Vapour pressure (20°C)	: Not known.	
Vapour density (20°C)	: > 1	(air = 1)
Relative density (20°C)	: 1,1 g/ml	
Evaporation rate	: < 1	(n-butyl acetate = 1)

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 8,85 mg/l. Ingredients of unknown toxicity: 56 %. ATE: > 5 mg/l. May cause damage to organs. Target organ(s): Central nervous system. Effect(s): Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.
- Corrosion/irritation : May cause irritation to respiratory airways and coughing. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain respiratory sensitisers. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact



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Acute toxicity	: Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 18 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
Corrosion/irritation	: Slight irritation possible. Repeated exposure may cause skin dryness or cracking. Prolonged contact may dry out and defat the skin.
Sensitisation	: Does not contain skin sensitisers. Not classified - based on available data, the classification criteria are not met.
Mutagenicity	: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.
Eye contact	
Corrosion/irritation	: Slight irritation possible. Not classified - based on available data, the classification criteria are not met.
Ingestion	
Acute toxicity	: Calculated LD50: > 1797 mg/kg.bw. Ingredients of unknown toxicity: 8 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. After ingestion, at vomiting, risk of aspiration in the lungs.
Corrosion/irritation	: May cause a feeling of sickness, stomachache, vomiting and diarrhoea. Not classified - based on available data, the classification criteria are not met.
Carcinogenicity	: Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
Mutagenicity	: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	NOAEL (oral) - estimate	> 1000 mg/kg bw/d	OECD 422	Rat
	Genotoxicity - estimate	Not genotoxic	OECD 476	Mouse
	NOEL (carcinogenicity) - estimate	Not carcinogenic	OECD 453	Rat
	LD50 (dermal) - estimate	> 5000 mg/kg bw	OECD 402	Rabbit
	LD50 (oral) - estimate	> 5000 mg/kg bw	OECD 401	Rat
	LC50 (inhalation) - estimate	> 5000 mg/m3	OECD 403	Rat
	Skin irritation - estimate	Non-irritant	OECD 404	Rabbit
	Eye irritation - estimate	Non-irritant	OECD 405	Rabbit
	Skin sensitisation - estimate	Not sensitizing	OECD 406	Guinea pig
	NOAEL (inhalation) - estimate	> 1160 mg/m3	OECD 413	Rat
	NOAEL (fertility) - estimate	> 1000 mg/kg.d	OECD 421	Rat
	NOAEL (development) - estimate	Not teratogenic	OECD 414	Rat

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 91 mg/l. Calculated EC50 (waterflea): 98 mg/l. Contains 38 % of components with unknown hazards to the aquatic environment. Not classified - based on available data, the classification criteria are not met. May form an oil film on the water surface causing a decline in oxygen content with possible adverse effects for aquatic organisms.

12.2. Persistence and degradability



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According to Regulation (EU) No 830/2015

Persistence – degradability : No specific information known. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents.

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

12.4. Mobility in soil

Mobility : Adsorbs to soil and has low mobility. Floats on water.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

12.6. Other adverse effects

Other information : Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers should be recycled or re-used. Treat product residues and non-empty pack as hazardous waste.

Additional warning : Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.

Waste water discharge : Avoid discharge of waste water arising from tank cleaning to the environment.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number

UN nr. : 1268

14.2. UN proper shipping name

Transport name : PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : Exempted according to 2.2.3.1.5 ADR.

Other information : Not intended for carriage by inland waterways in tank-vessels.

IMDG (sea)

Class : Exempted according to 2.3.2.5 IMDG.

Marine pollutant : No

IATA (air)

Class : 3

14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product.



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

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments.

SECTION 15 REGULATORY INFORMATION

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

Community regulations : Regulation (EC) No 830/2015 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.
: This product is exempted from classification as "May be fatal if swallowed and enters airways" on basis of section 3.10.3.3.1.1. of Annex I of Regulation (EC) No 1272/2008.

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION

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16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EC) No 830/2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

Full text of H-phrases mentioned in section 3:

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of hazard classes mentioned in section 3:

Flam. Liq. 3	: Flammable liquid, hazard category 3.
Skin Corr. 1B	: Skin corrosive, category 1B.
STOT SE 3	: Specific target organ toxicity after single exposure, category 3.
Asp. Tox. 1	: Aspiration hazard, category 1.
Aquatic Acute 1	: Hazardous to the aquatic environment — Acute category 1.

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
DNEL	Derived no-effect level
ECETOC TRA	European centre for ecotoxicology and toxicology of chemicals. Targeted risk assessment
EU	European Union
EUSES	European Union System for the Evaluation of Substances
IBC code	Intermediate Bulk Container
LD50 LC50	Lethal Dose/Concentration for 50% of a population
NOAEL	No Observed (Adverse) Effect Level
NOEC	No observed effect concentration
OEL	Occupational exposure limit
PBT	Persistent, Bioaccumulative and Toxic
PC	Chemical product category



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PNEC	Predicted no-effect concentration
STP	Sewage Treatment Plant
SU	Sector of Use
SVHC	Substance of very high concern
TWA/STEL	Time-Weighted Average/Short Term Exposure Limit
vPvB	Very Persistent and Very Bioaccumulative

Number format : "," used as decimal separator.

Date of sixth issue