



MATERIAL SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : COMMANDANT M3 RUBBING COMPOUND
Product code : CM325

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

Application : Consumer product (SU21). Car maintenance.

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 (for DOCTORS only):

(24/7)

SECTION 2 HAZARDS IDENTIFICATION

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2.1. Classification of the substance or mixture

CLP classification : Serious eye damage, category 1.
(1272/2008/EC)

Human health hazards : Causes serious eye damage. Contains petroleum distillates, may be harmful when ingested.
Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives.
Environmental hazards : Not classified as dangerous according to statutory EC-Directives.
Other information : Keep out of the reach of children.

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :



Signal word : Danger

H- and P-phrases : H318 Causes serious eye damage.
P102 Keep out of reach of children.
P280 eyes Wear 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.
P310 Immediately call a POISON CENTER/doctor.



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Additional labelling

- : Contains: Isotridecanol, branched, ethoxylated
- : 6 % of the mixture consists of ingredient(s) of unknown toxicity.

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 |
|---|-------------------------|------------|-----------|------------------|-----|
| Aluminium oxide ----- ----- | 25 - 50 | 1344-28-1 | 215-691-6 | | # |
| White mineral oil (petroleum) Asp. Tox. 1 H304 | 10 - 20 | 8042-47-5 | 232-455-8 | 01-2119487078-27 | |
| Distillates (petroleum), hydrotreated light Asp. Tox. 1; Skin Irrit. 2; STOT SE 3; Aquatic Chronic 2 H304; H315; H336; H411 | 5 - 10 | 64742-47-8 | 265-149-8 | 01-2119484819-18 | # |
| Propane-1,2-diol ----- ----- | 1 - 5 | 57-55-6 | 200-338-0 | 01-2119456809-23 | # |
| Isotridecanol, branched, ethoxylated Acute Tox. 4; Eye Dam. 1 H302; H318 | 1 - 5 | 69011-36-5 | ----- | | |
| Methanol Flam. Liq. 2; Acute Tox. 3; STOT SE 1 H225; H331; H311; H301; H370 | 1 - 3 | 67-56-1 | 200-659-6 | 01-2119433307-44 | # |

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.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up.
- 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 rinse the mouth. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.

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

Effects and symptoms

- Inhalation : May cause headache, dizziness and a feeling of sickness.
- Skin contact : No specific effects and/or symptoms are known.
- Eye contact : Strongly irritant. May cause redness and severe pain.
- Ingestion : May cause a feeling of sickness, vomiting and diarrhoea. May cause lung damage, sore throat and lack of breath.



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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. For guidance on selection of personal protective equipment see section 8. For guidance on disposal of spilled material see section 13. 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.

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.

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. Do not breathe vapour. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

- Storage : Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents.
Recommended packaging : Keep only in the original container.
Non recommended packaging : Steel (except stainless steel). PE and PP.

7.3. Specific end use(s)

- Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters



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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 |
|---|---------|---------------------------------|----------------------------------|---------------------------------------|
| Aluminium oxide | GB | 10 | - | - |
| Distillates (petroleum), hydrotreated light | | 1200 | - | CEFIC-HSPA |
| Propane-1,2-diol | GB | 474 | - | Total Vapour and Particulates |
| Propane-1,2-diol | | 474 | - | MAC UK: Total Vapour and Particulates |
| Methanol | GB | 266 | 333 | Skin |
| Methanol | EC | 260 | - | Skin |
| Methanol | | 260 | - | |
| 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 |
| Aluminium oxide | Inhalation | | | 15,63 mg/m ³ | |
| Propane-1,2-diol | Inhalation | | | 10 mg/m ³ | 168 mg/m ³ |
| Methanol | Dermal | | 40 mg/kg bw | 260 mg/kg bw/day | 40 mg/kg bw/day |
| | Inhalation | 260 mg/m ³ | 260 mg/m ³ | 50 mg/m ³ | 260 mg/m ³ |

Derived no-effect level (DNEL) for consumers:

| Chemical name | Route of exposure | DNEL, short-term | | DNEL, long-term | |
|------------------|-------------------|----------------------|----------------------|----------------------|----------------------|
| | | Local effect | Systemic effect | Local effect | Systemic effect |
| Aluminium oxide | Oral | | | | 3,29 mg/kg bw/day |
| Propane-1,2-diol | Inhalation | | | 10 mg/m ³ | 50 mg/m ³ |
| Methanol | Dermal | | 8 mg/kg bw | | 8 mg/kg bw/day |
| | Inhalation | 50 mg/m ³ | 50 mg/m ³ | | 50 mg/m ³ |
| | Oral | | 8 mg/kg bw | | 8 mg/kg bw/day |

Predicted no-effect concentration (PNEC):

| Chemical name | Route of exposure | Fresh water | Marine water | |
|------------------|--------------------|-------------|--------------|-----------------|
| Aluminium oxide | STP | | | 20 mg/l |
| Propane-1,2-diol | Water | 260 mg/l | 26 mg/l | |
| | Sediment | 572 mg/kg | 57,2 mg/kg | |
| | Intermittent water | | | 183 mg/l |
| | STP | | | 20000 mg/l |
| Methanol | Soil | | | 50 mg/kg |
| | Oral | | | 1133 mg/kg food |
| | Water | 154 mg/l | 15,4 mg/l | |
| | Sediment | 570,4 mg/kg | | |
| | Intermittent water | | | 1540 mg/l |
| | STP | | | 100 mg/l |
| | Soil | | | 23,5 mg/kg |

8.2. Exposure controls

- Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.
- Hygienic measures : When using do not eat, drink or smoke.



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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.
- Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), 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.
- 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 : Blue.
- Odour : Characteristic.
- Odour threshold : Not known.
- pH : 8,8
- Solubility in water : Not soluble.
- Partition coefficient (n-octanol/water) : Not known.
- Flash point : > 100 °C (PMcc)
- Auto ignition temperature : > 360 °C
- Boiling point/boiling range : 100 °C
- Melting point/melting range : 0 °C
- Explosion limits (in air) : Not known. Lower explosion limit in air (%): 5,5 (Methanol)
: Upper explosion limit in air (%): 44
- Oxidising properties : Not applicable. Does not contain oxidizing substances.
- Decomposition temperature : Not applicable.
- Viscosity (20°C) : Not known. (1 mm²/sec = 1cSt)
- Viscosity (40°C) : > 20 mm²/sec
- Vapour pressure (20°C) : Not known.
- Vapour density (20°C) : Not known. (air = 1)
- Relative density (20°C) : 1,33 g/ml
- Evaporation rate : < 1 (n-butyl acetate = 1)

SECTION 10 STABILITY AND REACTIVITY

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.



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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: > 4,591 mg/l. Ingredients of unknown toxicity: 10 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness.
- Sensitisation : Does not contain respiratory sensitisers. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Does not contain carcinogenic substances. 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

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 44 %. ATE: > 2000 mg/kg.bw.
- Corrosion/irritation : Unlikely to cause irritation.
- 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 : Risk of serious damage to eyes.

Ingestion

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 6 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause marked impairment of vision or blindness. After ingestion, at vomiting, risk of aspiration in the lungs.
- Corrosion/irritation : May cause a feeling of sickness, stomachache, vomiting and diarrhoea.
- Carcinogenicity : Does not contain carcinogenic substances. 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 |
|--------------------------------------|--------------------------------|-------------------|-------------|-------------|
| Isotridecanol, branched, ethoxylated | LD50 (dermal) - estimate | > 2000 mg/kg bw | ----- | Rat |
| | Skin irritation - estimate | Non-irritant | ----- | Rabbit |
| | Eye irritation - estimate | Severely irritant | ----- | Rabbit |
| | Skin sensitisation - estimate | Not sensitizing | ----- | Guinea pig |
| | Mutagenicity - estimate | Not mutagenic | OECD 471 | ----- |
| | NOAEL (development) - estimate | Not teratogenic | Read across | ----- |
| | NOAEL (fertility) - estimate | Not reprotoxic | Read across | ----- |
| | | | | |



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| | | | |
|-----------------------------------|------------------|-------------|------|
| NOEL (carcinogenicity) - estimate | Not carcinogenic | Read across | ---- |
| Genotoxicity - estimate | Not genotoxic | Read across | ---- |
| NOAEL (oral) - estimate | 100 mg/kg bw/d | Read across | ---- |
| LD50 (oral) - estimate | > 600 mg/kg bw | Read across | Rat |

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 450 mg/l. Calculated EC50 (waterflea): 13 mg/l. Contains 17 % of components with unknown hazards to the aquatic environment. 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

Persistence – degradability : No specific information known. The surfactants contained in this preparation do not comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents. This product shall not be used in cleaners.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

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

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 may be recycled. Treat product residues and non-empty pack as chemical waste. Dispose waste to an official chemical waste depot.

Additional warning : None.

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. : None.

14.2. UN proper shipping name

Transport name : Not regulated.

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

ADR/RID (road / railway)

Class : This product is not classified according to ADR/RID.

IMDG (sea)



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Class : This product is not classified according to IMDG.
Marine pollutant : No

IATA (air)
Class : This product is not classified according to IATA.

14.6. Special precautions for user

Other information : Country specific variations may apply.

SECTION 15 REGULATORY INFORMATION

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

Community regulations : Regulation (EC) No 1907/2006 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.
Other information : 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) 1907/2006 dated 18 December 2006 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:

| | |
|--------|---|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H318 | Causes serious eye damage. |
| H331 | Toxic if inhaled. |
| H370 | Causes damage to organs. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

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 |
| PNEC | Predicted no-effect concentration |
| STP | Sewage Treatment Plant |
| SU | Sector of Use |



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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.