

COCKPIT CLEAN & CARE SPRAY 400ML

Version Revision Date: SDS Number: Date of last issue: 09/10/2018
5.0 09/19/2018 780003-00010 Date of first issue: 06/24/2016

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

Trade name : COCKPIT CLEAN & CARE SPRAY 400ML
Product code : 00890 222 1

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

Use of the Sub- : Detergent
stance/Mixture Professional use product

1.3 Details of the supplier of the safety data sheet

Company : Würth SA (Pty) Ltd
 G1 Isando Industrial Park
 Gewel Street, Isando Ext. 3
 1600 Gauteng

Telephone : +27 11 281-1000

Telefax : +27 11 974-9711

E-mail address of person : prodsafe@wuerth.com
responsible for the SDS

1.4 Emergency telephone number

Advisory office in case of poisoning: +27 11 922-1164. Telephone number of the company
in case of emergencies: +27 11 281-1000 (08:00-16:30 h)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Skin irritation, Category 2	H315: Causes skin irritation.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

COCKPIT CLEAN & CARE SPRAY 400ML

Version 5.0 Revision Date: 09/19/2018 SDS Number: 780003-00010 Date of last issue: 09/10/2018
 Date of first issue: 06/24/2016

Hazard pictograms :



Signal word : Danger

Hazard statements :
 H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.
 H315 Causes skin irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Hazardous components which must be listed on the label:

Low boiling point hydrogen treated naphtha

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Low boiling point hydrogen treated naphtha	64742-49-0 265-151-9 649-328-00-1	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 50 - < 70
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	Not Assigned 01-2119472146-39	Flam. Liq.3; H226 Asp. Tox.1; H304 Aquatic Chronic4; H413	>= 2,5 - < 10
Dodecan-1-ol	112-53-8	Eye Irrit.2; H319	>= 1 - < 2,5

COCKPIT CLEAN & CARE SPRAY 400ML

Version 5.0 Revision Date: 09/19/2018 SDS Number: 780003-00010 Date of last issue: 09/10/2018
 Date of first issue: 06/24/2016

	203-982-0 01-2119485976-15	Aquatic Acute1; H400 Aquatic Chronic2; H411	
Tetradecanol	112-72-1 204-000-3 01-2119485910-33	Eye Irrit.2; H319 Aquatic Chronic1; H410	>= 1 - < 2,5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures
4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
 When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
- If inhaled : If inhaled, remove to fresh air.
 Get medical attention if symptoms occur.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
 Get medical attention.
 Wash clothing before reuse.
 Thoroughly clean shoes before reuse.
- In case of eye contact : Flush eyes with water as a precaution.
 Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.
 Get medical attention if symptoms occur.
 Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes skin irritation.
 May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures
5.1 Extinguishing media

- Suitable extinguishing media : Water spray
 Alcohol-resistant foam

COCKPIT CLEAN & CARE SPRAY 400ML

Version	Revision Date:	SDS Number:	Date of last issue: 09/10/2018
5.0	09/19/2018	780003-00010	Date of first issue: 06/24/2016

Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Flash back possible over considerable distance.
Vapours may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

Hazardous combustion products : Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.
Use personal protective equipment.
Follow safe handling advice and personal protective equipment recommendations.

6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapours/mists with a water spray jet.
For large spills, provide dyking or other appropriate contain-

COCKPIT CLEAN & CARE SPRAY 400ML

Version	Revision Date:	SDS Number:	Date of last issue: 09/10/2018
5.0	09/19/2018	780003-00010	Date of first issue: 06/24/2016

ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- | | | |
|-------------------------|---|---|
| Technical measures | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
| Local/Total ventilation | : | Use with local exhaust ventilation.
Use only in an area equipped with explosion-proof exhaust ventilation if advised by assessment of the local exposure potential |
| Advice on safe handling | : | Do not get on skin or clothing.
Do not breathe vapours or spray mist.
Do not swallow.
Avoid contact with eyes.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment.

Do not spray on an open flame or other ignition source. |
| Hygiene measures | : | Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. |

7.2 Conditions for safe storage, including any incompatibilities

- | | | |
|---|---|--|
| Requirements for storage areas and containers | : | Store locked up. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Do not pierce or burn, even after use. Keep cool. Protect from sunlight. |
| Advice on common storage | : | Do not store with the following product types:
Self-reactive substances and mixtures
Organic peroxides
Oxidizing agents |

COCKPIT CLEAN & CARE SPRAY 400ML

Version 5.0 Revision Date: 09/19/2018 SDS Number: 780003-00010 Date of last issue: 09/10/2018
 Date of first issue: 06/24/2016

Flammable solids
 Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures
 Substances and mixtures, which in contact with water, emit flammable gases
 Explosives

Recommended storage temperature : > 5 - 40 °C

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Butane	106-97-8	TWA OEL-RL	600 ppm 1.430 mg/m ³	ZA OEL
Further information	Recommended Limit			
		STEL OEL-RL	750 ppm 1.780 mg/m ³	ZA OEL
Further information	Recommended Limit			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Dodecan-1-ol	Workers	Inhalation	Long-term systemic effects	220 mg/m ³
	Workers	Inhalation	Acute systemic effects	220 mg/m ³
	Workers	Skin contact	Long-term systemic effects	125 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	125 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	65 mg/m ³
	Consumers	Inhalation	Acute systemic effects	65 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	75 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	75 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	75 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	75 mg/kg bw/day

COCKPIT CLEAN & CARE SPRAY 400ML

Version 5.0 Revision Date: 09/19/2018 SDS Number: 780003-00010 Date of last issue: 09/10/2018
 Date of first issue: 06/24/2016

Tetradecanol	Workers	Inhalation	Long-term systemic effects	220 mg/m ³
	Workers	Inhalation	Acute systemic effects	220 mg/m ³
	Workers	Skin contact	Long-term systemic effects	125 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	125 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	65 mg/m ³
	Consumers	Inhalation	Acute systemic effects	65 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	75 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	75 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	75 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Dodecan-1-ol	Fresh water	0,003 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	0,021 mg/l
	Fresh water sediment	1,1 mg/kg dry weight (d.w.)
	Marine sediment	0,11 mg/kg dry weight (d.w.)
	Soil	0,888 mg/kg dry weight (d.w.)
Tetradecanol	Fresh water	0,00032 mg/l
	Marine water	0,000032 mg/l
	Sewage treatment plant	0,002 mg/l
	Soil	1 mg/kg dry weight (d.w.)

8.2 Exposure controls
Engineering measures

Minimize workplace exposure concentrations.
 Use only in an area equipped with explosion-proof exhaust ventilation if advised by assessment of the local exposure potential
 Use with local exhaust ventilation.

Personal protective equipment

Eye protection : Wear the following personal protective equipment:
 Safety glasses

Hand protection

Material : Nitrile rubber
 Break through time : 480 min
 Glove thickness : 0,45 mm

COCKPIT CLEAN & CARE SPRAY 400ML

Version	Revision Date:	SDS Number:	Date of last issue: 09/10/2018
5.0	09/19/2018	780003-00010	Date of first issue: 06/24/2016

- | | | |
|--------------------------|---|---|
| Remarks | : | Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. |
| Skin and body protection | : | Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Wear the following personal protective equipment:
Flame retardant antistatic protective clothing, unless assessment demonstrates that the risk of explosive atmospheres or flash fires is low
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc). |
| Respiratory protection | : | Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. |
| Filter type | : | Self-contained breathing apparatus |
-

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

- | | | |
|--|---|------------------------------|
| Appearance | : | aerosol |
| Propellant | : | Propane, Butane, Isobutane |
| Colour | : | No data available |
| Odour | : | No data available |
| Odour Threshold | : | No data available |
| pH | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | > 60 °C |
| Flash point | : | Not applicable |
| Evaporation rate | : | Not applicable |
| Flammability (solid, gas) | : | Extremely flammable aerosol. |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower | : | No data available |

COCKPIT CLEAN & CARE SPRAY 400ML

Version	Revision Date:	SDS Number:	Date of last issue: 09/10/2018
5.0	09/19/2018	780003-00010	Date of first issue: 06/24/2016

flammability limit

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Density : 0,72 g/cm³ (20 °C)

Solubility(ies)

Water solubility : partly soluble

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

|| Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

|| Particle size : Not applicable

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

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Extremely flammable aerosol.
Vapours may form explosive mixture with air.
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.
Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

COCKPIT CLEAN & CARE SPRAY 400ML

Version	Revision Date:	SDS Number:	Date of last issue: 09/10/2018
5.0	09/19/2018	780003-00010	Date of first issue: 06/24/2016

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure :

- Inhalation
- Skin contact
- Ingestion
- Eye contact

Acute toxicity

Not classified based on available information.

Components:

Low boiling point hydrogen treated naphtha:

Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5,6 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

Acute oral toxicity	:	LD50 (Rat): > 15.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): >= 6.100 mg/m3 Exposure time: 4 h Test atmosphere: vapour Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on data from similar materials
Acute dermal toxicity	:	LD50 (Rabbit): > 5.000 mg/kg Remarks: Based on data from similar materials

Dodecan-1-ol:

Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): > 12 mg/l Exposure time: 6 h Test atmosphere: vapour Assessment: The substance or mixture has no acute inhalation toxicity

COCKPIT CLEAN & CARE SPRAY 400ML

Version 5.0 Revision Date: 09/19/2018 SDS Number: 780003-00010 Date of last issue: 09/10/2018
Date of first issue: 06/24/2016

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Tetradecanol:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 1,5 mg/l
Exposure time: 1 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Components:**Low boiling point hydrogen treated naphtha:**

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

Species : Rabbit
Result : Mild skin irritation

Assessment : Repeated exposure may cause skin dryness or cracking.

Dodecan-1-ol:

Species : Human
Result : No skin irritation

Tetradecanol:

Species : Human
Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:**Low boiling point hydrogen treated naphtha:**

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

COCKPIT CLEAN & CARE SPRAY 400ML

Version 5.0 Revision Date: 09/19/2018 SDS Number: 780003-00010 Date of last issue: 09/10/2018
Date of first issue: 06/24/2016

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

Species : Rabbit
Result : No eye irritation
Remarks : Based on data from similar materials

Dodecan-1-ol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritation to eyes, reversing within 21 days

Tetradecanol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritation to eyes, reversing within 21 days

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:**Low boiling point hydrogen treated naphtha:**

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : negative

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Result : negative
Remarks : Based on data from similar materials

Dodecan-1-ol:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : negative

Tetradecanol:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig

COCKPIT CLEAN & CARE SPRAY 400ML

Version 5.0 Revision Date: 09/19/2018 SDS Number: 780003-00010 Date of last issue: 09/10/2018
Date of first issue: 06/24/2016

Method : OECD Test Guideline 406
Result : negative

Germ cell mutagenicity

Not classified based on available information.

Components:**Low boiling point hydrogen treated naphtha:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Rat
Application Route: Intraperitoneal injection
Method: OPPTS 870.5395
Result: negative

Germ cell mutagenicity- Assessment : Classified based on benzene content < 0.1% (Regulation (EC)
1272/2008, Annex VI, Part 3, Note P)

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Dodecan-1-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow
cytogenetic test, chromosomal analysis)
Species: Mouse
Application Route: Ingestion

COCKPIT CLEAN & CARE SPRAY 400ML

Version	Revision Date:	SDS Number:	Date of last issue: 09/10/2018
5.0	09/19/2018	780003-00010	Date of first issue: 06/24/2016

Method: OECD Test Guideline 474

Result: negative

Tetradecanol:

Genotoxicity in vitro

: Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: negative

Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test

Result: negative

Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Components:
Low boiling point hydrogen treated naphtha:

Species : Mouse
Application Route : Skin contact
Exposure time : 102 weeks
Method : OECD Test Guideline 451
Result : negative

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

Species : Rat
Application Route : inhalation (vapour)
Exposure time : 105 weeks
Result : negative
Remarks : Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:
Low boiling point hydrogen treated naphtha:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapour)
Method: OECD Test Guideline 416
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat

COCKPIT CLEAN & CARE SPRAY 400ML

Version 5.0 Revision Date: 09/19/2018 SDS Number: 780003-00010 Date of last issue: 09/10/2018
 Date of first issue: 06/24/2016

Application Route: inhalation (vapour)
 Method: OECD Test Guideline 414
 Result: negative

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test
 Species: Rat
 Application Route: inhalation (vapour)
 Result: negative
 Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development
 Species: Rat
 Application Route: inhalation (vapour)
 Result: negative
 Remarks: Based on data from similar materials

Dodecan-1-ol:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
 Species: Rat
 Application Route: Ingestion
 Result: negative

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
 Species: Rat
 Application Route: Ingestion
 Result: negative

STOT - single exposure

May cause drowsiness or dizziness.

Components:
Low boiling point hydrogen treated naphtha:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity
Components:
Low boiling point hydrogen treated naphtha:

Species : Rat
 NOAEL : > 20 mg/l
 Application Route : inhalation (vapour)
 Exposure time : 13 Weeks
 Method : OPPTS 870.3465
 Remarks : Based on data from similar materials

COCKPIT CLEAN & CARE SPRAY 400ML

Version 5.0 Revision Date: 09/19/2018 SDS Number: 780003-00010 Date of last issue: 09/10/2018
 Date of first issue: 06/24/2016

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

Species : Rat
 NOAEL : > 10400 mg/m³
 Application Route : inhalation (vapour)
 Exposure time : 13 Weeks
 Remarks : Based on data from similar materials

Dodecan-1-ol:

Species : Rat
 NOAEL : > 2.000 mg/kg
 Application Route : Ingestion
 Exposure time : 41 - 45 Days

Aspiration toxicity

Not classified based on available information.

Components:
Low boiling point hydrogen treated naphtha:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12: Ecological information
12.1 Toxicity
Components:
Low boiling point hydrogen treated naphtha:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8,2 mg/l
 Exposure time: 96 h
 Method: OECD Test Guideline 203
 Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4,5 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202
 Remarks: Based on data from similar materials

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): > 0,01 - 0,1 mg/l

COCKPIT CLEAN & CARE SPRAY 400ML

Version 5.0 Revision Date: 09/19/2018 SDS Number: 780003-00010 Date of last issue: 09/10/2018
 Date of first issue: 06/24/2016

		Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	:	NOEC: 2,6 mg/l Exposure time: 14 d Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 204 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 16 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:		
Toxicity to fish	:	LL50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 1.000 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae	:	NOELR (Pseudokirchneriella subcapitata (green algae)): 1.000 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
		EL50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOELR: > 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
Dodecan-1-ol:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 1,01 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,765 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

COCKPIT CLEAN & CARE SPRAY 400ML

Version 5.0 Revision Date: 09/19/2018 SDS Number: 780003-00010 Date of last issue: 09/10/2018
 Date of first issue: 06/24/2016

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): 0,66 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 0,085 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC0 (Pseudomonas putida): > 10.000 mg/l
 Exposure time: 30 min

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 0,013 mg/l
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)
 Method: OECD Test Guideline 211

Tetradecanol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1 mg/l
 Exposure time: 96 h
 Method: OECD Test Guideline 203
 Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,2 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Desmodesmus subspicatus (green algae)): > 10 mg/l
 Exposure time: 96 h
 Test substance: Water Accommodated Fraction

EL10 (Desmodesmus subspicatus (green algae)): 2,9 mg/l
 Exposure time: 96 h
 Test substance: Water Accommodated Fraction

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 0,0063 mg/l
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)
 Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

12.2 Persistence and degradability
Components:
Low boiling point hydrogen treated naphtha:

Biodegradability : Result: Readily biodegradable.
 Biodegradation: 77 %
 Exposure time: 28 d

COCKPIT CLEAN & CARE SPRAY 400ML

Version 5.0 Revision Date: 09/19/2018 SDS Number: 780003-00010 Date of last issue: 09/10/2018
 Date of first issue: 06/24/2016

Method: OECD Test Guideline 301F

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

Biodegradability : Result: Inherently biodegradable.
 Biodegradation: 31 %
 Exposure time: 28 d
 Remarks: Based on data from similar materials

Dodecan-1-ol:

Biodegradability : Result: Readily biodegradable.
 Biodegradation: 79 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301D

Tetradecanol:

Biodegradability : Result: Readily biodegradable.
 Biodegradation: 92 %
 Exposure time: 28 d

12.3 Bioaccumulative potential
Components:
Low boiling point hydrogen treated naphtha:

Partition coefficient: n-octanol/water : log Pow: > 4
 Remarks: Expert judgement

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

Partition coefficient: n-octanol/water : log Pow: > 4
 Remarks: Based on data from similar materials

Dodecan-1-ol:

Partition coefficient: n-octanol/water : log Pow: >= 4
 Remarks: Based on data from similar materials

Tetradecanol:

Partition coefficient: n-octanol/water : log Pow: 5,5

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

COCKPIT CLEAN & CARE SPRAY 400ML

Version Revision Date: SDS Number: Date of last issue: 09/10/2018
5.0 09/19/2018 780003-00010 Date of first issue: 06/24/2016

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

- Product : Dispose of in accordance with local regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
Empty containers retain residue and can be dangerous.
Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.
If not otherwise specified: Dispose of as unused product.
Please ensure aerosol cans are sprayed completely empty (including propellant)
-

SECTION 14: Transport information**14.1 UN number**

- ADN : UN 1950
ADR : UN 1950
RID : UN 1950
IMDG : UN 1950
IATA : UN 1950

14.2 UN proper shipping name

- ADN : AEROSOLS
ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS
(Low boiling point hydrogen treated naphtha, Tetradecanol)
IATA : Aerosols, flammable

14.3 Transport hazard class(es)

- ADN : 2
ADR : 2
RID : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

COCKPIT CLEAN & CARE SPRAY 400ML

Version Revision Date: SDS Number: Date of last issue: 09/10/2018
5.0 09/19/2018 780003-00010 Date of first issue: 06/24/2016

ADN
Packing group : Not assigned by regulation
Classification Code : 5F
Labels : 2.1

ADR
Packing group : Not assigned by regulation
Classification Code : 5F
Labels : 2.1
Tunnel restriction code : (D)

RID
Packing group : Not assigned by regulation
Classification Code : 5F
Hazard Identification Number : 23
Labels : 2.1

IMDG
Packing group : Not assigned by regulation
Labels : 2.1
EmS Code : F-D, S-U

IATA (Cargo)
Packing instruction (cargo aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable Gas

IATA (Passenger)
Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable Gas

14.5 Environmental hazards

ADN
Environmentally hazardous : yes

ADR
Environmentally hazardous : yes

RID
Environmentally hazardous : yes

IMDG
Marine pollutant : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Remarks : Not applicable for product as supplied.

COCKPIT CLEAN & CARE SPRAY 400ML

Version	Revision Date:	SDS Number:	Date of last issue: 09/10/2018
5.0	09/19/2018	780003-00010	Date of first issue: 06/24/2016

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H304	: May be fatal if swallowed and enters airways.
H315	: Causes skin irritation.
H319	: Causes serious eye irritation.
H336	: May cause drowsiness or dizziness.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
H413	: May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Skin Irrit.	: Skin irritation
STOT SE	: Specific target organ toxicity - single exposure
ZA OEL	: South Africa. Hazardous Chemical Substances Regulations, Occupational Exposure Limits
ZA OEL / TWA OEL-RL	: Long term occupational exposure limits - recommended limit
ZA OEL / STEL OEL-RL	: Short term occupational exposure limits - recommended limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Mari-

COCKPIT CLEAN & CARE SPRAY 400ML

Version	Revision Date:	SDS Number:	Date of last issue: 09/10/2018
5.0	09/19/2018	780003-00010	Date of first issue: 06/24/2016

time Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Classification of the mixture:

Aerosol 1	H222, H229
Skin Irrit. 2	H315
STOT SE 3	H336
Aquatic Chronic 2	H411

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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