

SAFETY DATA SHEET

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

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

1.1. Product identifier

Product name	MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY
Product number	VOL406
Internal identification	B12961, 15004

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

Identified uses	Universal lubricant. Maintenance Spray. Displaces moisture, cleans & lubricates.
Uses advised against	This product is not recommended for any industrial, professional or consumer use other than the identified uses stated above.

1.3. Details of the supplier of the safety data sheet

Supplier	MOTAQUIP LIMITED Unit B1, Luton Enterprise Park, Sundon Park Road, Luton Bedfordshire LU3 3GU
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1.4. Emergency telephone number

Emergency telephone	Tel:
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards	Aerosol 1 - H222, H229
Health hazards	Asp. Tox. 1 - H304
Environmental hazards	Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) F+;R12. R52/53.

Human health	In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Environmental	The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
Physicochemical	Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

2.2. Label elements

Pictogram



Signal word	Danger
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Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	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. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501 Dispose of contents/container in accordance with national regulations. P102 Keep out of reach of children.
Contains	DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

DISTILLATES(PETROLEUM), HYDROTREATED LIGHT 30-60%		
CAS number: 64742-47-8	EC number: 265-149-8	REACH registration number: 01-2119484819-18-XXXX
Classification Asp. Tox. 1 - H304	Classification (67/548/EEC or 1999/45/EC) Xn;R65. R66.	
BUTANE 10-30%		
CAS number: 106-97-8	EC number: 203-448-7	REACH registration number: 01-2119474691-32-XXXX
Classification Flam. Gas 1 - H220 Press. Gas, Liquefied - H280	Classification (67/548/EEC or 1999/45/EC) F+;R12	
DISTILLATES(PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC BASE OIL 5-10%		
CAS number: 64742-65-0	EC number: 265-169-7	REACH registration number: 01-2119471299-27-XXXX
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -	
SODIUM PETROLEUM SULFONATE 1-5%		
CAS number: 68608-26-4	EC number: 271-781-5	REACH registration number: 01-2119527859-22-XXXX
Classification Eye Irrit. 2 - H319	Classification (67/548/EEC or 1999/45/EC) Xi;R41.	

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4-HYDROXY-4-METHYLPENTAN-2-ONE <1%		
CAS number: 123-42-2	EC number: 204-626-7	REACH registration number: 01-2119473975-21-XXXX
Classification Flam. Liq. 3 - H226 Eye Irrit. 2 - H319 STOT SE 3 - H335	Classification (67/548/EEC or 1999/45/EC) Xi;R36. R10.	
SOLVENT REFINED LIGHT PARAFFINIC DISTILLATE <1%		
CAS number: 64742-54-7	EC number: 265-157-1	REACH registration number: 01-2119484627-25-XXXX
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -	
2-(2-HEPTADEC-8-ENYL-2-IMIDAZOLIN-1-YL)ETHANOL <1%		
CAS number: 95-38-5	EC number: 202-414-9	REACH registration number: 01-2119777867-13-XXXX
M factor (Acute) = 1	M factor (Chronic) = 10	
Classification Acute Tox. 4 - H302 Skin Corr. 1C - H314 Eye Dam. 1 - H318 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) Xn;R22,R48/22. C;R34. N;R50/53.	
OLEOYL SARCOSINE <1%		
CAS number: 110-25-8	EC number: 203-749-3	REACH registration number: 01-2119488991-20-XXXX
M factor (Acute) = 1		
Classification Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400	Classification (67/548/EEC or 1999/45/EC) Xn;R20. Xi;R38,R41. N;R50.	
BENZYL BENZOATE <1%		
CAS number: 120-51-4	EC number: 204-402-9	
M factor (Acute) = 1		
Classification Acute Tox. 4 - H302 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC) Xn;R22. N;R51/53.	

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METHYL HYDROGENATED ROSINATE		<1%
CAS number: 8050-15-5	EC number: 232-476-2	
Classification Aquatic Chronic 3 - H412	Classification (67/548/EEC or 1999/45/EC) R43.	
TERPINEOL ACETATE		<1%
CAS number: 8007-35-0	EC number: 232-357-5	
Classification Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC) N;R51/53.	
VANILLIN		<1%
CAS number: 121-33-5	EC number: 204-465-2	
Classification Eye Irrit. 2 - H319		
ISOPENTYL SALICYLATE		<1%
CAS number: 87-20-7	EC number: 201-730-4	
Classification Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC) N;R51/53.	
CINEOLE		<1%
CAS number: 470-82-6	EC number: 207-431-5	
Classification Flam. Liq. 3 - H226 Skin Sens. 1B - H317		
COUMARIN		<1%
CAS number: 91-64-5	EC number: 202-086-7	REACH registration number: 01-2119949300-45-XXXX
Classification Acute Tox. 4 - H302 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	Classification (67/548/EEC or 1999/45/EC) Xn;R22. R43,R52/53.	

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TERPINOLENE		<1%
CAS number: 586-62-9	EC number: 209-578-0	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification Skin Sens. 1B - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) -	
HYDROXYCITRONELLAL		<1%
CAS number: 107-75-5	EC number: 203-518-7	REACH registration number: 01-2119973482-31-XXXX
Classification Eye Irrit. 2 - H319 Skin Sens. 1B - H317	Classification (67/548/EEC or 1999/45/EC) Xi;R38,R41. R43.	
ALLYLANISOLE		<1%
CAS number: 140-67-0	EC number: 205-427-8	
Classification Acute Tox. 4 - H302 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 2 - H351		
ALPHA-PINENE		<1%
CAS number: 80-56-8	EC number: 201-291-9	
M factor (Acute) = 1		
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400	Classification (67/548/EEC or 1999/45/EC) Xi;R36/37/38. N;R50. R10,R43.	
GERANYL ACETATE		<1%
CAS number: 105-87-3	EC number: 203-341-5	
Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC) Xi R38, R43; N;R51/53.	

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BENZYL ALCOHOL		<1%
CAS number: 100-51-6	EC number: 202-859-9	REACH registration number: 01-2119492630-38-XXXX
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H332	Classification (67/548/EEC or 1999/45/EC) Xn;R20/22	
BENZYL SALICYLATE		<1%
CAS number: 118-58-1	EC number: 204-262-9	REACH registration number: 01-2119969442-31-XXXX
Classification Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC) N;R51/53. R43.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Inhalation	Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Repeated exposure to high levels may affect the central nervous system. Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	Due to the physical nature of this material it is unlikely that swallowing will occur. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Vapours may form explosive mixtures with air. Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Nitrogen oxides.

5.3. Advice for firefighters

Protective actions during firefighting Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of spray mist and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Avoid contact with skin or inhalation of spillage, dust or vapour. Absorb in vermiculite, dry sand or earth and place into containers. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See Section 12 for additional information on ecological hazards.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid spilling. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Use non sparking handtools and explosion-proof electric equipment. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

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Storage precautions Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Keep away from heat, sparks and open flame.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

Long-term exposure limit (8-hour TWA): WEL 165 ppm 1200 mg/m³ vapour

BUTANE

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m³

Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m³

Carc

The carcinogenic classification only applies if Butane contains more than 0.1% of buta-1,3-diene.

DISTILLATES(PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC BASE OIL

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³ Inhalable Fraction.

Long-term exposure limit (8-hour TWA): EH40-MEL (Europe 2002) 5 mg/m³

4-HYDROXY-4-METHYLPENTAN-2-ONE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 241 mg/m³

Short-term exposure limit (15-minute): WEL 75 ppm 362 mg/m³

SOLVENT REFINED LIGHT PARAFFINIC DISTILLATE

No exposure limit value known.

2-(2-HEPTADEC-8-ENYL-2-IMIDAZOLIN-1-YL)ETHANOL

No exposure limit value known.

OLEOYL SARCOSINE

No exposure limit value known.

BENZYL BENZOATE

No exposure limit value known.

METHYL HYDROGENATED ROSINATE

No exposure limit value known.

TERPINEOL ACETATE

No exposure limit value known.

VANILLIN

No exposure limit value known.

ISOPENTYL SALICYLATE

No exposure limit value known.

CINEOLE

No exposure limit value known.

COUMARIN

No exposure limit value known.

TERPINOLENE

No exposure limit value known.

HYDROXYCITRONELLAL

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No exposure limit value known.

ALLYLANISOLE

No exposure limit value known.

ALPHA-PINENE

No exposure limit value known.

GERANYL ACETATE

No exposure limit value known.

BENZYL ALCOHOL

No exposure limit value known.

BENZYL SALICYLATE

No exposure limit value known.

WEL = Workplace Exposure Limit

Carc = Capable of causing cancer and/or heritable genetic damage.

Ingredient comments WEL = Workplace Exposure Limits

DISTILLATES(PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-47-8)

DNEL No DNEL available.

PNEC No PNEC available.

BUTANE (CAS: 106-97-8)

DNEL No DNEL available.

PNEC No PNEC available.

ISOBUTANE (CAS: 75-28-5)

DNEL No DNEL available.

PNEC No PNEC available.

DISTILLATES(PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC BASE OIL (CAS: 64742-65-0)

DNEL No DNEL available.

PNEC No PNEC available.
 Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

SODIUM PETROLEUM SULFONATE (CAS: 68608-26-4)

DNEL Workers - Inhalation; Long term systemic effects: 0.66 mg/m³
 Workers - Dermal; Long term systemic effects: 3.33 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 0.33 mg/m³
 General population - Dermal; Long term systemic effects: 1.667 mg/kg bw/day
 General population - Oral; Long term systemic effects: 0.8333 mg/kg bw/day

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

- PNEC**
- Fresh water; 1 mg/l
 - Marine water; 1 mg/l
 - Intermittent release; 10 mg/l
 - STP; 100 mg/l

4-HYDROXY-4-METHYLPENTAN-2-ONE (CAS: 123-42-2)

- DNEL**
- Industry - Inhalation; Short term Acute: 240 mg/m³
 - Industry - Inhalation; Long term systemic effects: 66.4 mg/m³
 - Industry - Dermal; Long term systemic effects: 9.4 mg/kg bw/day
 - Consumer - Inhalation; Short term Acute: 120 mg/m³
 - Consumer - Inhalation; Long term systemic effects, local effects: 11.8 mg/m³
 - Consumer - Oral, Dermal; Long term systemic effects: 3.4 mg/kg bw/day

- PNEC**
- Fresh water; 2 mg/l
 - Marine water; 0.2 mg/l
 - STP; 10 mg/l
 - Sediment (Freshwater); 9.06 mg/kg sediment dw
 - Sediment (Marinewater); 0.91 mg/kg sediment dw
 - Soil; 0.63 mg/kg soil dw
 - Intermittent release; 1 mg/l

SOLVENT REFINED LIGHT PARAFFINIC DISTILLATE (CAS: 64742-54-7)

DNEL No DNEL available.

PNEC No PNEC available.

2-(2-HEPTADEC-8-ENYL-2-IMIDAZOLIN-1-YL)ETHANOL (CAS: 95-38-5)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 0.46 mg/m³
 - Workers - Inhalation; Short term Acute: 14 mg/m³
 - Workers - Dermal; Long term systemic effects: 0.06 mg/kg bw/day
 - Workers - Dermal; Short term Acute: 2 mg/kg bw/day

- PNEC**
- Fresh water; 0.00003 mg/l
 - Marine water; 0.000003 mg/l
 - Intermittent release; 0.0003 mg/l
 - STP; 0.27 mg/l
 - Sediment (Freshwater); 0.376 mg/kg sediment dw
 - Sediment (Marinewater); 0.0376 mg/kg sediment dw
 - Soil; 0.075 mg/kg soil dw

OLEOYL SARCOSINE (CAS: 110-25-8)

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

DNEL

Consumer - Oral; Short term Acute: 92 mg/kg bw/day
 Consumer - Oral; Long term systemic effects: 5 mg/kg bw/day
 Consumer - Dermal; Short term Acute: 50 mg/kg bw/day
 Industry - Dermal; Short term Acute: 100 mg/kg bw/day
 Consumer - Dermal; Long term systemic effects: 5 mg/kg bw/day
 Industry - Dermal; Long term systemic effects: 10 mg/kg bw/day
 Consumer - Inhalation; Short term Acute: 9 mg/m³
 Industry - Inhalation; Short term Acute: 18 mg/m³
 Industry - Inhalation; Long term systemic effects: 0.2 mg/m³
 Industry - Inhalation; Long term local effects: 0.01 mg/m³
 Consumer - Inhalation; Long term systemic effects: 0.1 mg/m³
 Consumer - Inhalation; Long term local effects: 0.005 mg/m³

PNEC

- Marine water; 0.000043 mg/l
- Fresh water; 0.00043 mg/l
- Intermittent release; 0.0043 mg/l
- STP; 13 mg/l

BENZYL BENZOATE (CAS: 120-51-4)

DNEL

Workers - Inhalation; Long term systemic effects: 5.1 mg/m³
 Workers - Inhalation; Short term Acute: 102 mg/m³
 Workers - Dermal; Long term systemic effects: 2.6 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 1.25 mg/m³
 General population - Dermal; Long term systemic effects: 1.3 mg/kg bw/day
 General population - Oral; Long term systemic effects: 0.4 mg/kg bw/day
 General population - Oral; Short term Acute: 78 mg/kg bw/day

PNEC

- Fresh water; 0.0168 mg/l
- Marine water; 0.00168 mg/l
- STP; 100 mg/l
- Sediment (Freshwater); 10.66 mg/kg sediment dw
- Sediment (Marinewater); 1.07 mg/kg sediment dw
- Soil; 2.12 mg/kg soil dw

METHYL HYDROGENATED ROSINATE (CAS: 8050-15-5)

DNEL

Workers - Inhalation; Long term systemic effects: 44.6 mg/m³
 Workers - Dermal; Long term systemic effects: 6.3 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 13.2 mg/m³
 General population - Dermal; Long term systemic effects: 3.8 mg/kg bw/day
 General population - Oral; Long term systemic effects: 3.8 mg/kg bw/day

PNEC

- Fresh water; 0.027 mg/l
- Marine water; 0.0027 mg/l
- Intermittent release; 0.27 mg/l
- STP; 2 mg/l
- Sediment (Freshwater); 625.79 mg/kg sediment dw
- Sediment (Marinewater); 62.58 mg/kg sediment dw
- Soil; 125 mg/kg soil dw

TERPINEOL ACETATE (CAS: 8007-35-0)

DNEL No DNEL available.

PNEC No PNEC available.

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY**d-LIMONENE (CAS: 5989-27-5)**

DNEL	Workers - Inhalation; Long term systemic effects: 33.3 mg/m ³ Workers - Dermal; Short term local effects, Acute: 0.222 mg/cm ² General population - Inhalation; Long term systemic effects: 8.33 mg/m ³ General population - Dermal; Short term local effects, Acute: 0.111 mg/cm ² General population - Oral; Long term systemic effects: 4.76 mg/kg bw/day
PNEC	- Fresh water; 0.0054 mg/l - Marine water; 0.00054 mg/l - STP; 1.8 mg/l - Sediment (Freshwater); 1.32 mg/kg sediment dw - Marine water; 0.13 mg/kg sediment dw - Soil; 0.262 mg/kg soil dw

PARA-MENTH-1-EN-8-OL (CAS: 98-55-5)

DNEL	No DNEL available.
PNEC	- STP; 2.6 mg/l - Sediment (Freshwater); 1.85 mg/kg - Sediment (Marinewater); 0.185 mg/kg - Soil; 0.329 mg/kg

VANILLIN (CAS: 121-33-5)

DNEL	No DNEL available.
PNEC	- Fresh water; 0.118 mg/l - Marine water; 0.0118 mg/l - STP; 10 mg/l - Sediment (Freshwater); 58.22 mg/kg sediment dw - Sediment (Marinewater); 5.822 mg/kg sediment dw - Soil; 11.54 mg/kg soil dw

ISOPENTYL SALICYLATE (CAS: 87-20-7)

DNEL	No DNEL available.
PNEC	No PNEC available.

3,7-DIMETHYL-1,6-OCTADIEN-3-OL (CAS: 78-70-6)

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DNEL

Workers - Inhalation; Long term systemic effects: 2.8 mg/m³
 Workers - Inhalation; Short term Acute: 16.5 mg/m³
 Workers - Dermal; Long term systemic effects: 2.5 mg/kg bw/day
 Workers - Dermal; Short term Acute: 5 mg/kg bw/day
 Workers - Dermal; Long term local effects: 15 mg/cm²
 Workers - Dermal; Short term Acute: 15 mg/cm²
 General population - Inhalation; Long term systemic effects: 0.7 mg/m³
 General population - Inhalation; Short term Acute: 4.1 mg/m³
 General population - Dermal; Long term systemic effects: 1.25 mg/kg bw/day
 General population - Dermal; Short term Acute: 2.5 mg/kg bw/day
 General population - Dermal; Long term local effects: 15 mg/cm²
 General population - Dermal; Short term Acute: 15 mg/cm²
 General population - Oral; Long term systemic effects: 0.2 mg/kg bw/day
 General population - Oral; Short term Acute: 1.2 mg/kg bw/day

PNEC

- Fresh water; 0.2 mg/l
- Marine water; 0.02 mg/l
- Intermittent release; 2 mg/l
- STP; 10 mg/l
- Sediment (Freshwater); 2.22 mg/kg sediment dw
- Sediment (Marinewater); 0.222 mg/kg sediment dw
- Soil; 0.327 mg/kg soil dw

CINEOLE (CAS: 470-82-6)

DNEL

Workers - Inhalation; Long term systemic effects: 7.05 mg/m³
 Workers - Dermal; Long term systemic effects: 2 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 1.74 mg/m³
 General population - Dermal; Long term systemic effects: 1 mg/kg bw/day
 General population - Oral; Long term systemic effects: 600 mg/kg bw/day

PNEC

- Fresh water; 0.057 mg/l
- Marine water; 0.0057 mg/l
- Intermittent release; 0.57 mg/l
- STP; 10 mg/l
- Sediment (Freshwater); 1.425 mg/kg sediment dw
- Sediment (Marinewater); 0.1425 mg/kg sediment dw
- Soil; 0.25 mg/kg soil dw

COUMARIN (CAS: 91-64-5)

DNEL

Workers - Inhalation; Long term systemic effects: 6.78 mg/m³
 Workers - Dermal; Long term systemic effects: 0.79 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 1.69 mg/m³
 General population - Dermal, Oral; Long term systemic effects: 0.39 mg/kg bw/day

PNEC

- Fresh water; 0.019 mg/l
- Marine water; 0.0019 mg/l
- Intermittent release; 0.0142 mg/l
- STP; 6.4 mg/l
- Sediment (Freshwater); 0.15 mg/kg sediment dw
- Sediment (Marinewater); 0.015 mg/kg sediment dw
- Soil; 0.018 mg/kg soil dw

TERPINOLENE (CAS: 586-62-9)

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

DNEL Workers - Inhalation; Long term systemic effects: 3.6 mg/m³
 Workers - Dermal; Long term systemic effects: 0.52 mg/kg bw/day
 Workers - Dermal; Long term local effects: 0.044 mg/cm²
 General population - Inhalation; Long term systemic effects: 0.9 mg/m³
 General population - Dermal, Oral; Long term systemic effects: 0.26 mg/kg bw/day

PNEC - Fresh water; 0.000634 mg/l
 - Marine water; 0.0000634 mg/l
 - Intermittent release; 0.00634 mg/l
 - STP; 0.2 mg/l
 - Sediment (Freshwater); 0.147 mg/kg sediment dw
 - Sediment (Marinewater); 0.0147 mg/l
 - Soil; 0.0291 mg/l

CITRAL (CAS: 5392-40-5)

DNEL Workers - Inhalation; Long term systemic effects: 9 mg/m³
 Workers - Dermal; Long term systemic effects: 1.7 mg/kg bw/day
 Workers - Dermal; Long term local effects: 0.14 mg/cm²
 General population - Inhalation; Long term systemic effects: 2.7 mg/m³
 General population - Dermal; Long term systemic effects: 1 mg/kg bw/day
 General population - Dermal; Long term local effects: 0.14 mg/cm²
 General population - Oral; Long term systemic effects: 0.6 mg/kg bw/day

PNEC - Fresh water; 0.00678 mg/l
 - Marine water; 0.000678 mg/l
 - Intermittent release; 0.0678 mg/l
 - STP; 1.6 mg/l
 - Sediment (Freshwater); 0.125 mg/kg sediment dw
 - Sediment (Marinewater); 0.0125 mg/kg sediment dw
 - Soil; 0.0209 mg/kg soil dw

HYDROXYCITRONELLAL (CAS: 107-75-5)

DNEL Workers - Inhalation; Long term systemic effects: 18 mg/m³
 Workers - Dermal; Long term systemic effects: 1.9 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 5.4 mg/m³
 General population - Dermal; Long term systemic effects: 1.1 mg/kg bw/day
 General population - Oral; Long term systemic effects: 0.6 mg/kg bw/day
 Workers, General population - Dermal; Short term local effects, Acute: 0.5 mg/cm²

PNEC - Fresh water; 0.0316 mg/l
 - Marine water; 0.00316 mg/l
 - Intermittent release; 0.316 mg/l
 - STP; 10 mg/l
 - Sediment (Freshwater); 0.145 mg/kg sediment dw
 - Sediment (Marinewater); 0.0145 mg/kg sediment dw
 - Soil; 0.0105 mg/kg soil dw

ALLYLANISOLE (CAS: 140-67-0)

DNEL No DNEL available.

PNEC No PNEC available.

ALPHA-PINENE (CAS: 80-56-8)

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

DNEL

Workers - Inhalation; Long term systemic effects: 5.98 mg/m³
 Workers - Dermal; Short term Acute: 0.161 mg/cm²
 General population - Inhalation; Long term systemic effects: 1.06 mg/m³
 General population - Dermal; Short term systemic effects, Acute: 0.081 mg/cm²
 General population - Oral; Long term systemic effects: 0.31 mg/kg bw/day

PNEC

- Fresh water; 0.004 mg/l
- Marine water; 0.0004 mg/l
- STP; 3.26 mg/l
- Sediment (Freshwater); 1.033 mg/kg sediment dw
- Sediment (Marinewater); 0.103 mg/kg sediment dw
- Soil; 0.539 mg/kg soil dw

GERANIOL (CAS: 106-24-1)

DNEL

Workers - Inhalation; Long term systemic effects: 161.6 mg/m³
 Workers - Dermal; Long term systemic effects: 12.5 mg/kg bw/day
 Workers - Dermal; Long term local effects: 11.8 mg/cm²
 General population - Inhalation; Long term systemic effects: 47.8 mg/m³
 General population - Dermal; Long term systemic effects: 7.5 mg/kg bw/day
 General population - Dermal; Long term local effects: 11.8 mg/cm²
 General population - Oral; Long term systemic effects: 13.75 mg/kg bw/day

PNEC

- Fresh water; 0.0108 mg/l
- Marine water; 0.00108 mg/l
- Intermittent release; 0.108 mg/l
- STP; 0.7 mg/l
- Sediment (Freshwater); 0.115 mg/kg
- Sediment (Marinewater); 0.0115 mg/kg
- Soil; 0.0167 mg/kg

GERANYL ACETATE (CAS: 105-87-3)

DNEL

Workers - Inhalation; Long term systemic effects: 62.59 mg/m³
 Workers - Dermal; Long term systemic effects: 35.5 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 15.4 mg/m³
 General population - Dermal; Long term systemic effects: 17.75 mg/kg bw/day
 General population - Oral; Long term systemic effects: 8.9 mg/kg bw/day

PNEC

- Fresh water; 0.00372 mg/l
- Marine water; 0.000372 mg/l
- Intermittent release; 0.0372 mg/l
- STP; 8 mg/l
- Sediment (Freshwater); 0.442 mg/kg sediment dw
- Sediment (Marinewater); 0.0442 mg/kg sediment dw
- Soil; 0.0859 mg/kg soil dw

BENZYL ALCOHOL (CAS: 100-51-6)

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

DNEL

Workers - Inhalation; Long term systemic effects: 22 mg/m³
 Workers - Inhalation; Short term Acute: 110 mg/m³
 Workers - Dermal; Long term systemic effects: 8 mg/kg bw/day
 Workers - Dermal; Short term Acute: 40 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 5.4 mg/m³
 General population - Inhalation; Short term Acute: 27 mg/m³
 General population - Dermal, Oral; Long term systemic effects: 4 mg/kg bw/day
 General population - Dermal, Oral; Short term Acute: 20 mg/kg bw/day

PNEC

- Fresh water; 1 mg/l
- Marine water; 0.1 mg/l
- Intermittent release; 2.3 mg/l
- STP; 39 mg/l
- Sediment (Freshwater); 5.27 mg/kg sediment dw
- Sediment (Marinewater); 0.527 mg/kg sediment dw
- Soil; 0.456 mg/kg soil dw

CITRONELLOL (CAS: 106-22-9)

DNEL

Workers - Inhalation; Long term systemic effects: 161.6 mg/m³
 Workers - Inhalation; Long term local effects: 10 mg/m³
 Workers - Inhalation; Short term Acute: 10 mg/m³
 Workers - Dermal; Long term systemic effects: 327.4 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 47.8 mg/m³
 General population - Inhalation; Long term local effects: 10 mg/m³
 General population - Inhalation; Short term Acute: 10 mg/m³
 General population - Dermal; Long term systemic effects: 196.4 mg/kg bw/day
 General population - Dermal; Short term local effects, Acute: 2.950 mg/cm²
 Workers - Dermal; Short term Acute, local effects: 2.950 mg/cm²
 General population - Oral; Long term systemic effects: 13.8 mg/kg bw/day

PNEC

- Fresh water; 0.0024 mg/l
- Marine water; 0.00024 mg/l
- Intermittent release; 0.024 mg/l
- STP; 580 mg/l
- Sediment (Freshwater); 0.0256 mg/kg sediment dw
- Sediment (Marinewater); 0.00256 mg/kg sediment dw
- Soil; 0.00371 mg/kg soil dw

BENZYL SALICYLATE (CAS: 118-58-1)

DNEL

Workers - Inhalation; Long term systemic effects: 3.17 mg/m³
 Workers - Dermal; Long term systemic effects: 0.9 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 0.78 mg/m³
 General population - Dermal; Long term systemic effects: 0.45 mg/kg bw/day
 General population - Oral; Long term systemic effects: 0.45 mg/kg bw/day

PNEC

- Fresh water; 0.00103 mg/l
- Marine water; 0.000103 mg/l
- Intermittent release; 0.0103 mg/l
- STP; 10 mg/l
- Sediment (Freshwater); 0.584 mg/kg sediment dw
- Sediment (Marinewater); 0.0584 mg/kg sediment dw
- Soil; 0.021 mg/kg soil dw

8.2. Exposure controls

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

None required when product is used as instructed. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection

No specific precautions due to the small quantities handled. In case of intensive contact, wear protective gloves (EN 374). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. protective gloves shall be replaced immediately when physically damaged or worn. Appropriate Material - Butyl, Material Thickness - 0.6 to 0.8mm, Breakthrough Time - 8Hrs

Other skin and body protection

Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

Hygiene measures

Do not smoke in work area. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. When using do not eat, drink or smoke.

Respiratory protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Amber. to Brown.
Odour	Characteristic. Perfume.
Initial boiling point and range	170-200°C @ 760 mm Hg
Flash point	36°C CC (Closed cup).
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.6% Upper flammable/explosive limit: 8.0%
Vapour density	>1
Relative density	0.800g/ml @ 20°C
Solubility(ies)	Soluble in the following materials: Organic solvents. Insoluble in water.
Comments	Information given concerns the concentrated solution.

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Strong alkalis. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General information	To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated.
Inhalation	May cause respiratory system irritation. Prolonged inhalation of high concentrations may damage respiratory system. Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	Swallowing concentrated chemical may cause severe internal injury. May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	Repeated exposure may cause skin dryness or cracking. Repeated or prolonged exposure may lead to irritation and dermatitis. Irritating to skin.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.
Route of entry	Inhalation Skin and/or eye contact

Toxicological information on ingredients.

DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rabbit

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 5.21

Species Rat

ATE inhalation (dusts/mists mg/l) 5.21

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Respiratory sensitisation

Respiratory sensitisation No information required.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

Carcinogenicity Conclusive data but not sufficient for classification.

Reproductive toxicity

Reproductive toxicity - fertility Fertility: - NOAEL >3000 mg/kg/day, Oral, Rat Method OECD Test guideline 421. This substance has no evidence of toxicity to reproduction

Reproductive toxicity - development Developmental toxicity: - NOAEL: 1000 mg/kg/day, Oral, Rat Method OECD 414. This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Conclusive data but not sufficient for classification.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 750 mg/kg, Oral, Rat

Inhalation No specific health hazards known.

Ingestion Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

Skin contact	No specific health hazards known.
Eye contact	No specific health hazards known.

BUTANE

Acute toxicity - oral

Notes (oral LD₅₀)	No information available.
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Acute toxicity - dermal

Notes (dermal LD₅₀)	No information available.
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Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l)	658.0
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Species	Rat
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ATE inhalation (vapours mg/l)	658.0
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Skin corrosion/irritation

Animal data	Not irritating.
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Serious eye damage/irritation

Serious eye damage/irritation	Not irritating.
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Respiratory sensitisation

Respiratory sensitisation	No known effects from this product.
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Skin sensitisation

Skin sensitisation	No known effects from this product.
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Germ cell mutagenicity

Genotoxicity - in vitro	Negative.
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Genotoxicity - in vivo	Negative.
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Carcinogenicity

Carcinogenicity	No information available.
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IARC carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
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Reproductive toxicity

Reproductive toxicity - fertility	No evidence of reproductive toxicity in animal studies.
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Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction.
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Specific target organ toxicity - single exposure

STOT - single exposure	Based on available data the classification criteria are not met.
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MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard No data available.

Inhalation

In low concentrations may cause narcotic effects, dizziness, headache, nausea, loss of co-ordination and irregular cardiac activity. In high concentrations may cause loss of mobility/consciousness and it may cause asphyxiation.

DISTILLATES(PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC BASE OIL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

Notes (oral LD₅₀) Conclusive data but not sufficient for classification.

ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,001.0

Species Rabbit

Notes (dermal LD₅₀) Conclusive data but not sufficient for classification.

ATE dermal (mg/kg) 5,001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 5.1

Species Rat

Notes (inhalation LC₅₀) Conclusive data but not sufficient for classification.

ATE inhalation (dusts/mists mg/l) 5.1

Skin corrosion/irritation

Animal data Oedema score: No oedema (0). Slightly irritating.

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating.

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Not sensitising.

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Conclusive data but not sufficient for classification.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Conclusive data but not sufficient for classification.

Aspiration hazard

Aspiration hazard Kinematic viscosity > 20.5 mm²/s. Conclusive data but not sufficient for classification.

Skin contact

Not a skin sensitiser. Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking.

4-HYDROXY-4-METHYLPENTAN-2-ONE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,002.0

Species Rat

ATE oral (mg/kg) 3,002.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 13,750.0

Species Rabbit

ATE dermal (mg/kg) 13,750.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC0 >7.6 mg/l for rats exposed to vapour for 4 hours. the product is not classified as toxic.

Skin corrosion/irritation

Animal data Conclusive data but not sufficient for classification.

Serious eye damage/irritation

Serious eye damage/irritation Irritating to eyes: Category 2.

Skin sensitisation

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Conclusive data but not sufficient for classification.
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEL 1.84 , Inhalation, Rat
Target organ for carcinogenicity	Kidneys Liver
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Fertility: - NOAEL 300 mg/kg, Oral, Rat F1 This substance has no evidence of toxicity to reproduction.
Reproductive toxicity - development	Maternal toxicity: - NOAEL: 4.1 , Inhalation, Rat
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	0.48 mg/l/4hr, Inhalation, Human
Target organs	Respiratory system, lungs
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEL 250 mg/kg, Oral, Rat
Target organs	Kidneys Liver
<u>Aspiration hazard</u>	
Aspiration hazard	Kinematic viscosity > 20.5 mm ² /s.
<u>General information</u>	
General information	The product contains small amounts of organic solvents. Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations.
Inhalation	Gas or vapour in high concentrations may irritate the respiratory system. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Headache.
Ingestion	May cause stomach pain or vomiting.
Skin contact	May be absorbed through the skin. Slightly irritating. Repeated exposure may cause skin dryness or cracking.
Eye contact	Irritation of eyes and mucous membranes.
Acute and chronic health hazards	Prolonged contact may cause dryness of the skin. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Route of entry	Ingestion. Inhalation Skin absorption Skin and/or eye contact

SECTION 12: Ecological Information

Ecotoxicity The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Ecological information on ingredients.

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

DISTILLATES(PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC BASE OIL

Ecotoxicity The product is not expected to be hazardous to the environment.

4-HYDROXY-4-METHYLPENTAN-2-ONE

Ecotoxicity The product is not expected to be hazardous to the environment.

12.1. Toxicity

Ecological information on ingredients.

DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

Acute toxicity - fish LL₅₀, 96 hours: 20 mg/l, Onchorhynchus mykiss (Rainbow trout)
NOEL, 96 hours: 6.8 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EL₅₀, 48 hours: 40-89 mg/l, Daphnia magna
NOEL, 48 hours: 40 mg/l, Daphnia magna

Acute toxicity - aquatic plants EL₅₀, 72 hours: 10-30 mg/l, Pseudokirchneriella subcapitata
NOEL, 72 hours: 10 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms EC₅₀, 72 hours, 72 hours: 678 mg/l, Activated sludge

BUTANE

Acute toxicity - fish LC₅₀, 96 hours: 24.11 mg/l, Fish

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: 14.22 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: 7.71 mg/l, Freshwater algae

DISTILLATES(PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC BASE OIL

Acute toxicity - fish LL₅₀, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EL₅₀, 48 hours: > 100 mg/l, Daphnia magna

Chronic toxicity - fish early life stage NOEC, 96 hours: > 100 mg/l, Fish

Chronic toxicity - aquatic invertebrates LL₅₀, 21 days: >1000 mg/l, Daphnia magna

4-HYDROXY-4-METHYLPENTAN-2-ONE

Acute toxicity - fish LC₅₀, 96 hours: > 100 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours, 48 hours: > 1000 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEC, 72 hours, 72 hours: 1000 mg/l, Selenastrum capricornutum

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

Chronic toxicity - aquatic invertebrates NOEC, 21 days, 21 days: 100 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is expected to be slowly biodegradable. Volatile substances are degraded in the atmosphere within a few days. The product is degraded completely by photochemical oxidation.

Ecological information on ingredients.

DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

Persistence and degradability	Inherently biodegradable.
Phototransformation	Not applicable.
Stability (hydrolysis)	Not applicable.
Biodegradation	Inherently biodegradable.

BUTANE

Biodegradation	The substance is readily biodegradable.
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DISTILLATES(PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC BASE OIL

Persistence and degradability	The substances in this product are readily biodegradable.
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4-HYDROXY-4-METHYLPENTAN-2-ONE

Persistence and degradability	The substance is readily biodegradable.
Biodegradation	water - Degradation (%) 98.51: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential May accumulate in soil and water systems.

Ecological information on ingredients.

DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

Bioaccumulative potential	Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.
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BUTANE

Bioaccumulative potential	The product is not bioaccumulating.
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DISTILLATES(PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC BASE OIL

Bioaccumulative potential	The product contains potentially bioaccumulating substances.
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MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

Partition coefficient log Pow: > 6

4-HYDROXY-4-METHYLPENTAN-2-ONE

Bioaccumulative potential Not potentially bioaccumulative

Partition coefficient : -0.098

12.4. Mobility in soil

Mobility The product contains substances which are insoluble in water and which may spread on water surfaces.

Ecological information on ingredients.

DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

Mobility Substance is a UVCB. Standard tests for this endpoint are not appropriate. The product is immiscible with water and will spread on the water surface.

BUTANE

Mobility No data available.

DISTILLATES(PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC BASE OIL

Mobility The product has poor water-solubility. The product will float on water. Absorbs to soil and has low mobility.

4-HYDROXY-4-METHYLPENTAN-2-ONE

Mobility The product is soluble in water.

Adsorption/desorption coefficient Soil - log Koc: 0.52 @ °C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

BUTANE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

DISTILLATES(PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC BASE OIL

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

4-HYDROXY-4-METHYLPENTAN-2-ONE

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Ecological information on ingredients.

DISTILLATES(PETROLEUM), HYDROTREATED LIGHT

Other adverse effects None known.

DISTILLATES(PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC BASE OIL

Other adverse effects Not dangerous for the ozone layer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods	Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

Transport labels



14.4. Packing group

ADR/RID packing group	None
IMDG packing group	None
ADN packing group	None
ICAO packing group	None

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations	Control of Pollution (Special Waste) Regulations 1980 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation	Dangerous Substances Directive 67/548/EEC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Guidance	Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Issued by	HS&E Manager.

MOTAQUIP MULTI-PURPOSE MAINTENANCE SPRAY

Revision date	10/10/2014
Revision	4
Supersedes date	28/05/2013
SDS status	Approved.
Risk phrases in full	Not classified. R10 Flammable. R12 Extremely flammable. R36 Irritating to eyes. R41 Risk of serious damage to eyes. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.
Hazard statements in full	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H373 May cause damage to organs (Gastro-intestinal tract, Thymus gland.) through prolonged or repeated exposure if swallowed. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.