MOTIP DUPLI

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.04.2017 Version number 177 Revision: 14.04.2017

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

- · 1.1 Product identifier
- · Trade name: MOTIP® PENETRATING OIL MoS2 500 ML
- · Article number: 090303
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- · Product category PC24 Lubricants, greases, release products
- · Process category

PROC7 Industrial spraying

PROC11 Non industrial spraying

· Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

- · Application of the substance / the mixture Screw loosing agent
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

MOTIP DUPLI B.V.

Wolfraamweg 2

NL-8471 XC Wolvega

The Netherlands

Tel: +31 (0)561 694400 Fax: +31 (0)561 694411 e-mail info@nl.motipdupli.com

- · Further information obtainable from: Department Product Safety
- 1.4 Emergency telephone number: +31 (0)561-694400 (09:00h 17:00h)

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS02

- · Signal word Danger
- · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H412 Harmful to aquatic life with long lasting effects.

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· Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe spray.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

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

P501 Dispose of contents/container in accordance with local regulations.

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
EC number: 918-481-9 Reg.nr.: 01-2119457273-39	Naphta (petroleum), hydrotreated heavy & Asp. Tox. 1, H304	25-50%
CAS: 64742-55-8 EINECS: 265-158-7 Index number: 649-468-00-3 Reg.nr.: 01-2119487077-29-xxxx	Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1, H304	20-25%
CAS: 109-66-0 EINECS: 203-692-4 Index number: 601-006-00-1 Reg.nr.: 01-2119459286-30-xxxx	pentane Flam. Liq. 1, H224 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336	12.5-20%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx	propane Flam. Gas 1, H220 Press. Gas C, H280	5-10%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx	butane Flam. Gas 1, H220 Press. Gas C, H280	5-10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-xxxx	isobutane Flam. Gas 1, H220 Press. Gas C, H280	5-10%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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 $\cdot \textit{4.3 Indication of any immediate medical attention and special treatment needed}$

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Protect from heat and direct sunlight.
- \cdot 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

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· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace: 109-66-0 pentane WEL Long-term value: 1800 mg/m³, 600 ppm 106-97-8 butane WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

- · Respiratory protection: Not required.
- · Protection of hands: Not required.
- · Material of gloves Not required.
- · Penetration time of glove material Not required.
- · Eye protection: Not required.

SECTION 9: Physical and chemical property	les

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 9.1 Information on basic physical an General Information Appearance: 	d chemical properties
**	A 1
Form:	Aerosol
Colour:	Transparent
· Odour:	Solvent-like
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
· Flash point:	<0 °C (<32 °F)
1 tasii potiti.	Not applicable, as aerosol.
	^^
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	> 200 °C (> 392 °F)
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour
	mixtures are possible.
· Explosion limits:	
Lower:	0.6 Vol %
Upper:	8.0 Vol %
Vapour pressure at 20 °C (68 °F):	3500 hPa (2625 mm Hg)
· · · · · · · · · · · · · · · · · · ·	·
· Density at 20 °C (68 °F):	$0.71162 \text{ g/cm}^3 (5.938 \text{ lbs/gal})$
· Relative density	Not determined.
· Vapour density	Not determined.

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		(Contd. of page 4
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octano	l/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	70.0 %	
· EU-VOC:	498.1 g/l	
· EU-VOC in %:	70.00 %	
· Solids content:	0.4 %	
· 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:			
Naphta (pe	etroleum), h	ydrotreated heavy	
Oral	LD50	>15000 mg/kg (rat)	
Dermal	LD50	>3000 mg/kg (rab)	
Inhalative	LC50/4 h	>2.8 mg/m3 (rat)	
109-66-0 р	109-66-0 pentane		
Oral	LD50	>16000 mg/kg (rat)	
Dermal	LD50	>2500 mg/kg (rat)	
		>5000 mg/kg (rabbit)	
Inhalative	Inhalative LC50 / 4 h >100 mg/m3 (rat)		
106-97-8 b	utane		
Inhalative	LC50/4 h	658000 mg/m3 (rat)	

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.

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

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

Naphta (petroleum), hydrotreated heavy

LC50/96 h > 100 mg/l (crustacean (amphipod))

>100 mg/l (fish)

109-66-0 pentane

EC50 / 48 h 9.7 mg/l (daphnia magna)

LC50 / 96 h | 1-10 mg/l (fish)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European	waste catalogue
20 01 13*	solvents
15 01 04	metallic packaging

- · Uncleaned packaging:
- · **Recommendation:** Non contaminated packagings may be recycled.

SECI	ION.	14: 1	ransport	int	ormati	on

· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
 14.2 UN proper shipping name ADR IMDG IATA 	1950 AEROSOLS AEROSOLS AEROSOLS, flammable

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ADR Class Label 2.1 IMDG, IATA Class Label 2.1 Class 2.1 Label 2.1 ADR, IATA Void 14.4 Packing group ADR, IMDG, IATA Void 14.5 Environmental hazards: Marine pollutant: No 14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 line SW22 For AEROSOLS with a maximum capacity of 1 line SW22 For AEROSOLS with a maximum capacity of 1 line SW22 For AEROSOLS with a maximum capacity of 1 line SW22 For AEROSOLS with a maximum capacity of 1 line SW22 For AEROSOLS with a maximum capacity of 1 line SW22 For AEROSOLS with a maximum capacity of 1 line SW22 For AEROSOLS with a maximum capacity of 1 line SW22 For AEROSOLS with a maximum capacity of 1 line SW22 For AEROSOLS with a maximum capacity of 1 line SW22 For AEROSOLS with a maximum capacity of 1 line SW22 For AEROSOLS with a maximum capacity of 1 line SW23 For AEROSOLS with a maximum capacity of 1 line SW23 For AEROSOLS with a maximum capacity of 1 line SW23 For AEROSOLS with a maximum capacity of 1 line SW23 For AEROSOLS with a maximum capacity of 1 line SW23 For AEROSOLS with a maximum capacity of 1 line SW24 For AEROSOLS with a maximum capacity of 1 line SW25 For AEROSOLS with a maximum capacity of 1 line SW25 For AEROSOLS with a maximum capacity of 1 line SW25 For AEROSOLS with a maximum capacity of 1 line SW25 For AEROSOLS with a maximum capacity of 1 line SW25 For AEROSOLS with a maximum capacity of 1 line SW25 For AEROSOLS with a maximum capacity of 1 line SW25 For AEROSOLS with a maximum capacity of 1 line SW25 For AEROSOLS with a maximum capacity of 1 line SW25 For AEROSOLS with a maximum capacity of 1 line SW25 For AEROSOLS with a maximum capacity of 1 line SW25 For AEROSOLS with a maximum capacity of 1 line SW25 For AEROSOLS with a maximum capacity of 1 line SW25 For AEROSOLS with a maximum capacity of 1 line SW25 FOR AEROSOLS with a maximum capacity of 1 line SW25 FOR AEROSOLS with a maximum capacity of 1 line SW25 FOR AEROSOLS with a maximu	142 Tuguen out have and along (as)	(Contd. of pag
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Trade name: MOTIP® PENETRATING OIL MoS2 500 ML

(Contd. of page 7)

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H220 Extremely flammable gas.

H224 Extremely flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

- · Department issuing SDS: R&D legislation and regulatory advisor
- · Contact: Mr. K. Smedeman
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases - Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas C: Gases under pressure - Compressed gas

Flam. Liq. 1: Flammable liquids - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the proving particle altered.

 \cdot * Data compared to the previous version altered.

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