MOTIP DUPLI

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

Printing date 02.06.2015

Version number 163

Revision: 02.06.2015

	laentificat	ion of the substance/mixture and of the company/undertaking
1.1 Product ide		NG BRAKE CLEANER
Article number 1.2 Relevant id No further relevant	: 000291 entified uses of vant informatio	f the substance or mixture and uses advised against
Manufacturer/ MOTIP DUPLI Wolfraamweg 2 NL- 8471 XC W The Netherland Tel: +31 (0)56 Fax: +31 (0)56 e-mail info@nl.	Supplier: B.V. Volvega s 1 694400 1 694411 motipdupli.com	the safety data sheet m ble from: QHSE Department
		mber: +31 (0)561-694400 (09:00h - 17:00h)
Flam. Aerosol		29 Extremely flammable aerosol. Pressurised container: May burst if heate
GHS	09 environmen	
Aquatic Chroni	c 2 H411	Toxic to aquatic life with long lasting effects.
~		
GHS GHS	07	
GHS Skin Irrit. 2	07 H315	Causes skin irritation.
\checkmark		Causes skin irritation. May cause drowsiness or dizziness.
Skin Irrit. 2 STOT SE 3 Classification of	H315 H336 according to D	
Skin Irrit. 2 STOT SE 3	H315 H336 according to D	May cause drowsiness or dizziness.
Skin Irrit. 2 STOT SE 3 Classification of Xi; Irritar	H315 H336 according to D	May cause drowsiness or dizziness.
Skin Irrit. 2 STOT SE 3 Classification of Xi; Irritan R38: Irrit	H315 H336 according to D	May cause drowsiness or dizziness. irective 67/548/EEC or Directive 1999/45/EC
Skin Irrit. 2 STOT SE 3 Classification of X_i ; Irritan R38: Irrit F+; Extre	H315 H336 according to D at ating to skin.	May cause drowsiness or dizziness. irective 67/548/EEC or Directive 1999/45/EC le
Skin Irrit. 2 STOT SE 3 Classification of X_i ; Irritan R38: Irritan F+; Extre R12: Extr	H315 H336 according to D at ating to skin. mely flammab emely flammab	May cause drowsiness or dizziness. irective 67/548/EEC or Directive 1999/45/EC le ble.
Skin Irrit. 2 STOT SE 3 Classification of Xi; Irritan R38: Irrita F+; Extre R12: Extr N; Dange	H315 H336 according to D at ating to skin. mely flammab emely flammab rous for the en	May cause drowsiness or dizziness. irective 67/548/EEC or Directive 1999/45/EC le ble. wironment
Skin Irrit. 2 STOT SE 3 Classification of Xi; Irritan R38: Irrit F+; Extre R12: Extr Xi; Dange R51/53: Tox	H315 H336 according to D at ating to skin. mely flammab emely flammad rous for the en c to aquatic or	May cause drowsiness or dizziness. irective 67/548/EEC or Directive 1999/45/EC le ble.

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Trade name: MOTIP CYCLING BRAKE CLEANER

Informat	(Contd. of pag
	on concerning particular hazards for human and environment:
	ict has to be labelled due to the calculation procedure of the "General Classification guideline for
	ons of the EU" in the latest valid version.
	Pressurised container.
	cotising effect.
	tion system:
The class	fication is according to the latest editions of the EU-lists, and extended by company and literatur
data.	
2.2 Label	
	according to Regulation (EC) No 1272/2008
The produ	ict is classified and labelled according to the CLP regulation.
Hazard p	ictograms
^	
$\langle \psi \rangle$	
\mathbf{Y}	
GHS02	GHS07 GHS09
011502	011507 011509
Signal we	rd Danger
Hazard_d	etermining components of labelling:
	petroleum), hydrotreated light
Hazard si	
-	
	29 Extremely flammable aerosol. 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.
	nary statements
P102	Keep out of reach of children.
	Do not breathe sprav.
P260	Do noi orcuine spruy.
P260 P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokin
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P210 P251 P211	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokin Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.
P210 P251 P211 P410+P4	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. 12 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P210 P251 P211 P410+P4 P501	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokin Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. 12 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local regulations.
P210 P251 P211 P410+P4 P501 2.3 Other	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokin Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. 12 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local regulations. hazards
P210 P251 P211 P410+P4 P501 2.3 Other Results o	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokin Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. 12 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local regulations. hazards f PBT and vPvB assessment
P210 P251 P211 P410+P4 P501 2.3 Other Results of PBT: Not	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokin Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. 12 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local regulations. hazards FPBT and vPvB assessment applicable.
P210 P251 P211 P410+P4 P501 2.3 Other Results of PBT: Not	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokin Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. 12 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local regulations. hazards f PBT and vPvB assessment
P210 P251 P211 P410+P4 P501 2.3 Other Results o PBT: Not vPvB: Not	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokin Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. 12 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local regulations. hazards f PBT and vPvB assessment applicable. t applicable.
P210 P251 P211 P410+P4 P501 2.3 Other Results of PBT: Not vPvB: Not	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokin Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. 12 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local regulations. hazards FPBT and vPvB assessment applicable.
P210 P251 P211 P410+P4 P501 2.3 Other Results of PBT: Not vPvB: Not vPvB: Not SECTIO 3.2 Chem	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokin Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. 12 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local regulations. hazards f PBT and vPvB assessment applicable. t applicable.

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		ntd. of page
CAS: 64742-49-0 EC number: 921-024-6 Reg.nr.: 01-2119475514-35-xxxx	Naphtha (petroleum), hydrotreated light Xn R65 Xi R38 F R11 N R51/53 R67 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	50-75%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx	propane F+ R12 ♦ Flam. Gas 1, H220	10-12.5%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx	butane F+ R12 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 F+ R12 Flam. Gas 1, H220 Press. Gas C, H280	5-10%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide 🔗 Press. Gas L, H280	1-2.5%

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• After inhalation: In case of unconsciousness place patient stably in side position for transportation.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

• 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.
- 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.

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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 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

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.

• 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.

8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

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)

124-38-9 carbon dioxide

WEL Short-term value: 27400 mg/m³, 15000 ppm

Long-term value: 9150 mg/m³, 5000 ppm

• *Additional information:* The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the skin. Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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(Contd. of page 4) Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Not required.

SECTION 9: Physical and chemical properties

Appearance: Form:	Aerosol
Form: Colour:	According to product specification
Odour:	Characteristic
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)
	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:	<i>Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.</i>
Explosion limits:	
Lower:	0.6 Vol %
Upper:	10.9 Vol %
Vapour pressure at 20 °C (68 °F):	5750 hPa (4313 mm Hg)
Density at 20 °C (68 °F):	0.638 g/cm ³ (5.324 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.

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· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
Solvent content: Organic solvents: 9.2 Other information	97.5 % No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity

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

· LD/LC50 values relevant for classification:

64742-49-	-49-0 Naphtha (petroleum), hydrotreated light		
Oral	LD50	>5840 mg/kg (rat)	
Dermal	LD50	>5840 mg/kg (rat) >2920 mg/kg (rabbit)	
Inhalative	LC50 / 4 h	>193 mg/m3 (rat)	
	LC50 / 4h	25.2 mg/l (rat)	
	LC50 / 96 h	11.4 mg/l (fish)	
10/ 08 01			

106-97-8 butane

Inhalative LC50 / 4 h 658000 mg/m3 (rat)

· Primary irritant effect:

· Skin corrosion/irritation Irritant to skin and mucous membranes.

• Serious eye damage/irritation No irritating effect.

· Respiratory or skin sensitisation No sensitising effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity:

64742-49-0 Naphtha (petroleum), hydrotreated light

EC50 / 48 h 3 mg/l (daphnia magna)

EC50 / 72 h 30-100 mg/l (algae)

LC50 / 96 h 93-117 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.

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- Ecotoxical effects:
- Remark: Toxic for 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.
- Also poisonous for fish and plankton in water bodies.
- Toxic for 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
- 14 06 03* other solvents and solvent mixtures
- 15 01 04 metallic packaging
- 15 01 11* metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers
- Uncleaned packaging:
- · Recommendation: Non contaminated packagings may be recycled.

SECTION 14: Transport information · 14.1 UN-Number · ADR, IMDG, IATA UN1950 · 14.2 UN proper shipping name · ADR 1950 AEROSOLS, MARINE POLLUTANT/ ENVIRONMENTALLY HAZARDOUS ·IMDG AEROSOLS (Naphtha (petroleum), hydrotreated light), MARINE POLLUTANT AEROSOLS, flammable $\cdot IATA$ · 14.3 Transport hazard class(es) · ADR 2 5F Gases. · Class · Label 2.1 ·IMDG · Class 2.1 (Contd. on page 8) GB

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Label	2.1
IATA	
()	
Class	2.1
Label	2.1
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	Yes
Constant on the ADD)	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler):	-
EMS Number:	F-D,S-U
14.7 Transport in bulk according to Ann	ex II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
T	Not permitted as Excepted Quantity
Transport category	2 D
Tunnel restriction code	<i>D</i>
IMDG	
Limited quantities (LQ)	
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
UN "Model Regulation":	UN1950, AEROSOLS, 2.1, MARINE POLLUTANT/

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.

· 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.

H225 Highly flammable liquid and vapour.

- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.

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H336	May cause drowsiness or dizziness.	
H411	Toxic to aquatic life with long lasting effects.	
 R11	Highly flammable	
	Highly flammable.	
R12	Extremely flammable.	
R38	Irritating to skin.	
R51/5.	3 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic e	environment.
R65	Harmful: may cause lung damage if swallowed.	
R67	Vapours may cause drowsiness and dizziness.	
	tment issuing MSDS: R&D legislation and regulatory advisor	
Conta	ct: Mr. K. Smedeman	
Abbre	viations and acronyms:	
RID: Rè	glement international concernant le transport des marchandises dangereuses par chemin de fer (Regu	lations Concerning the
Internat	tional Transport of Dangerous Goods by Rail)	
	International Civil Aviation Organisation	
	ccord européen sur le transport des marchandises dangereuses par Route (European Agreement conce	rning the International
	e of Dangerous Goods by Road)	
	International Maritime Code for Dangerous Goods	
	nternational Air Transport Association	
	Coloally Harmonised System of Classification and Labelling of Chemicals	
	S: European Inventory of Existing Commercial Chemical Substances S: European List of Notified Chemical Substances	
	hemical Abstracts Service (division of the American Chemical Society)	
	Lethal concentration, 50 percent	
	Lethal dose, 50 percent	
	Gas 1: Flammable gases, Hazard Category 1	
	erosol 1: Flammable aerosols, Hazard Category 1	
	Gas C: Gases under pressure: Compressed gas	
Press. G	Gas L: Gases under pressure: Liquefied gas	
Flam. L	iq. 2: Flammable liquids, Hazard Category 2	
	it. 2: Skin corrosion/irritation, Hazard Category 2	
	E 3: Specific target organ toxicity - Single exposure, Hazard Category 3	
	x. 1: Aspiration hazard, Hazard Category 1	
	Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2	
* Data	a compared to the previous version altered.	