

SAFETY DATA SHEET of: Brake Cleaner 400ml

Revision date: Friday, November 14, 2014

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

1.1 Product identifier:

Brake Cleaner 400ml

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

/

Concentration in use: /

1.3 Details of the supplier of the safety data sheet:

MBI B.V.B.A.

Vlamingveld 55

B8490 Jabbeke

Phone: 050680019 — Fax: 050680019

E-mail: info@morganblue.net — Website: <http://www.morganblue.net/>

1.4 Emergency telephone number:

003270245245

2 SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:

Classification of the substance or mixture in accordance with regulation (EU) 1272/2008:

H222 Flam. Aerosol 1 H229 H315 Skin Irrit. 2 H319 Eye Irrit. 2 H336 STOT SE 3 H411 Aquatic Chronic 2

Classification of the substance or mixture in accordance with regulation 67/548/EC:

R12: Extremely flammable R38: Irritant R51/53: Dangerous to the environment R67

2.2 Label elements:

Symbols:



Signal word:

Danger

Hazard statements:

H222 Flam. Aerosol 1:	Extremely flammable aerosol.
H229:	Pressurised container: May burst if heated.
H315 Skin Irrit. 2:	Causes skin irritation.
H319 Eye Irrit. 2:	Causes serious eye irritation.
H336 STOT SE 3:	May cause drowsiness or dizziness.
H411 Aquatic Chronic 2:	Toxic 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.
P251:	Do not pierce or burn, even after use.
P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313:	If skin irritation occurs: Get medical advice/attention.
P362+P364:	Take off contaminated clothing and wash it before reuse.
P410+P412:	Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

Contains:

Hydrocarbons, C6 iso-alkanes <5% n-hexane Pentane

2.3 Other hazards:

none

3 SECTION 3: Composition/information on ingredients:

Hydrocarbons, C6 iso-alkanes <5% n-hexane	> 30%	CAS number: EINECS: 931-254-9 REACH Registration number: 01-2119484651-34 CLP Classification: H225 Flam. Liq. 2 H304 Asp. Tox. 1 H315 Skin Irrit. 2 H336 STOT SE 3 H411 Aquatic Chronic 2 R-Phrases: R11 R38 R51/53 R65 R67
n-Hexane	< 5%	CAS number: 110-54-3 EINECS: 203-777-6 REACH Registration number: CLP Classification: H225 Flam. Liq. 2 H304 Asp. Tox. 1 H315 Skin Irrit. 2 H336 STOT SE 3 H361f Repr. 2 H373 STOT RE 2 H411 Aquatic Chronic 2 R-Phrases: R11 R38 R48/20 R51/53 R62 R65 R67

Pentane	15% - 30%	CAS number: 109-66-0 EINECS: 203-692-4 REACH Registration number: 01-2119459286-30 CLP Classification: EUH066 H225 Flam. Liq. 2 H304 Asp. Tox. 1 H336 STOT SE 3 H411 Aquatic Chronic 2 R-Phrases: R12 R51/53 R65 R66 R67
Isopropanol	15% - 30%	CAS number: 67-63-0 EINECS: 200-661-7 REACH Registration number: 01-2119457558-25 CLP Classification: H225 Flam. Liq. 2 H319 Eye Irrit. 2 H336 STOT SE 3 R-Phrases: R11 R36 R67
n-Butane (<0,01% Butadiene -1,3)	5% - 15%	CAS number: 106-97-8 EINECS: 203-448-7 REACH Registration number: Annex V CLP Classification: H220 Flam. Gas 1 R-Phrases: R12
Propane	5% - 15%	CAS number: 74-98-6 EINECS: 200-827-9 REACH Registration number: Annex V CLP Classification: H220 Flam. Gas 1 R-Phrases: R12

For the full text of the H & R phrases mentioned in this section, see section 16.

4 SECTION 4: First aid measures:

4.1 Description of first aid measures:

Always ask medical advice as soon as possible should serious or continuous disturbances occur.

Skin contact:	remove contaminated clothing, rinse with plenty of water, if necessary seek medical attention.
Eye contact:	first prolonged rinsing with water (contact lenses to be removed if this is easily done) then take to physician.
Ingestion:	rinse mouth, do not induce vomiting, take to hospital immediately.
Inhalation:	let sit upright, fresh air, rest and take to hospital.

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

Skin contact:	redness, pain
Eye contact:	redness, pain, bad looking
Ingestion:	diarrhoea, headache, abdominal cramps, sleepiness, vomiting
Inhalation:	sore throat, cough, shortness of breath, headache

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

none

5 SECTION 5: Fire-fighting measures:

5.1 Extinguishing media:

CO₂, foam, powder, sprayed water

5.2 Special hazards arising from the substance or mixture:

none

5.3 Advice for fire-fighters:

Extinguishing agents to be avoided: none

6 SECTION 6: Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:

Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind. Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

6.2 Environmental precautions:

do not allow to flow into sewers or open water.

6.3 Methods and material for containment and cleaning up:

remove by using absorbent material.

6.4 Reference to other sections:

for further information check sections 8 & 13.

7 SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

handle with care to avoid spillage.

7.2 Conditions for safe storage, including any incompatibilities:

keep in a sealed container in a closed, frost-free, ventilated room.

7.3 Specific end use(s):

/





8 SECTION 8: Exposure controls/personal protection:

8.1 Control parameters:

Listing of the hazardous ingredients in section 3, of which the TLV value is known

n-Butane (<0,01% Butadiene -1,3) 1,928 mg/m³, Propane 1,800 mg/m³, Pentane 1,796 mg/m³, Isopropanol 997 mg/m³, Hydrocarbons, C6 iso-alkanes <5% n-hexane 903 mg/m³, n-Hexane 72 mg/m³

8.2 Exposure controls:

Inhalation protection:	if necessary, use an air-purifying face mask in case of respiratory hazards.	
Skin protection:	handling with nitril-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,35 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands.	
Eye protection:	keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems.	
Other protection:	impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question.	

9 SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

Melting point/melting range:	/
Boiling point/Boiling range:	-140 °C — 62 °C
pH:	/
pH 1% diluted in water:	/
Vapour pressure/20°C,:	853 000 Pa
Vapour density:	not applicable
Relative density, 20°C:	0.635 kg/l
Appearance/20°C:	liquid
Flash point:	-20 °C
Flammability (solid, gas):	not applicable
Auto-ignition temperature:	365 °C
Upper flammability or explosive limit, (Vol %):	12.000 %
Lower flammability or explosive limit, (Vol %):	1.100 %
Explosive properties:	not applicable
Oxidising properties:	not applicable
Decomposition temperature:	/
Solubility in water:	not soluble
Partition coefficient: n-octanol/water:	not applicable
Odour:	characteristic
Odour threshold:	not applicable
Dynamic viscosity, 20°C:	1 mPa.s
Kinematic viscosity, 20°C:	2 mm²/s
Evaporation rate (n-BuAc = 1):	9.600

9.2 Other information:

Volatile organic component (VOC):	99.00 %
Volatile organic component (VOC):	610.434 g/l

10 SECTION 10: Stability and reactivity:

10.1 Reactivity:

stable under normal conditions.

10.2 Chemical stability:

extremely high or low temperatures.

10.3 Possibility of hazardous reactions:

none

10.4 Conditions to avoid:

protect from sunlight and do not expose to temperatures exceeding + 50°C.

10.5 Incompatible materials:

keep away from sources of ignition

10.6 Hazardous decomposition products:

doesn't decompose with normal use

11 SECTION 11: Toxicological information:

11.1 Information on toxicological effects:

About the preparation itself:	No data available
General information:	See ingredients under section 3
Calculated acute toxicity, LD50 oral rat:	/
Calculated acute toxicity, LD50 dermal rat:	/

12 SECTION 12: Ecological information:

12.1 Toxicity:

No data available

12.2 Persistence and degradability:

No data available

12.3 Bioaccumulative potential:

No data available

12.4 Mobility in soil:

Water hazard class, WGK:	2
Solubility in water:	not soluble

12.5 Results of PBT and vPvB assessment:

No data available

12.6 Other adverse effects:

No data available

13 SECTION 13: Disposal considerations:

13.1 Waste treatment methods:

Draining into the sewers is not permitted. Removal should be carried out by licensed services. Possible restrictive regulations by local authority should always be adhered to.

14 SECTION 14: Transport information:

14.1 UN number:

1950

14.2 UN proper shipping name:

UN 1950 Aerosols, flammable, 5F, (D)

14.3 Transport hazard class(es):

Class(es):	5F
Identification number of the hazard:	not applicable

14.4 Packing group:

not applicable

14.5 Environmental hazards:

environmentally hazardous

14.6 Special precautions for user:

Hazard characteristics:	Risk of fire. Risk of explosion. Containments may explode when heated.
Additional guidance:	Take cover. Keep out of low areas.



15 SECTION 15: Regulatory information:

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

Water hazard class, WGK: 2

Volatile organic component (VOC): 99.000 %
Volatile organic component (VOC): 610.434 g/l
Composition by regulation (EC) 648/2004: Aliphatic hydrocarbons > 30%

15.2 Chemical Safety Assessment:

No data available

16 SECTION 16: Other information:

Legend to abbreviations used in the safety data sheet:

Nr.:	number
CAS:	Chemical Abstracts Service
EINECS:	European INventory of Existing Commercial chemical Substances
WGK:	Water hazard class
WGK 1:	slightly hazardous for water
WGK 2:	hazardous for water
WGK3:	extremely hazardous for water
ADR:	Accord européen relatif au transport international des marchandises Dangereuses par Route
TLV:	Threshold Limit Value
PTB:	persistent, toxic, bioaccumulative
vPvB:	very persistent and very bioaccumulative substances
CLP:	Classification, Labelling and Packaging of chemicals
DPD:	Dangerous Preparations Directive

Legend to the R & H Phrases used in the safety data sheet:

R11: Highly flammable. **R12:** Extremely flammable. **R36:** Irritating to eyes. **R38:** Irritating to skin.
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation. **R51/53:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **R62:** Possible risk of impaired fertility. **R65:** Harmful: may cause lung damage if swallowed **R66:** Repeated exposure may cause skin dryness or cracking **R67:** Vapours may cause drowsiness and dizziness

EUH066: Repeated exposure may cause skin dryness or cracking. **H220 Flam. Gas 1:** Extremely flammable gas.
H222 Flam. Aerosol 1: Extremely flammable aerosol. **H225 Flam. Liq. 2:** Highly flammable liquid and vapour.
H229: Pressurised container: May burst if heated. **H304 Asp. Tox. 1:** May be fatal if swallowed and enters airways.
H315 Skin Irrit. 2: Causes skin irritation. **H319 Eye Irrit. 2:** Causes serious eye irritation. **H336 STOT SE 3:** May cause drowsiness or dizziness. **H361f Repr. 2:** Suspected of damaging fertility. **H373 STOT RE 2:** May cause damage to organs through prolonged or repeated exposure. **H411 Aquatic Chronic 2:** Toxic to aquatic life with long lasting effects.

Reason of revision, changes of following items:

Section: 2.2

MSDS reference number:

ECM-104456,00

This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 453/2010. Classification has been calculated in accordance with the European directive 67/548/EWG, 1999/45/EC and regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care. We cannot, however, accept

responsibility for damage, of any kind, that may be caused by using these data or the product concerned. To use this preparation for an experiment or a new application , the user must carry out a material suitability and safety study himself.