

GB

Page 1 of 19
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 23.02.2015 / 0010
Replaces revision of / Version: 06.12.2013 / 0009
Valid from: 23.02.2015
PDF print date: 24.02.2015
Gold Label MOTO for Motor Bikes 300 mL
Art.: 2909

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Gold Label MOTO for Motor Bikes 300 mL
Art.: 2909

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

Relevant identified uses of the substance or mixture:

Petrol additive

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

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

Chemical product category [PC]:

PC13 - Fuels

PC24 - Lubricants, greases, release products

PC35 - Washing and cleaning products (including solvent based products)

Process category [PROC]:

PROC 1 - Use in closed process, no likelihood of exposure.

PROC 2 - Use in closed, continuous process with occasional controlled exposure

PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC16 - Using material as fuel sources, limited exposure to unburned product to be expected

PROC20 - Heat and pressure transfer fluids in dispersive, professional use but closed systems

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Industrial use of processing aids in processes and products, not becoming part of articles

ERC 7 - Industrial use of substances in closed systems

ERC 9a - Wide dispersive indoor use of substances in closed systems

ERC 9b - Wide dispersive outdoor use of substances in closed systems

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

GB

LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany

Phone: (+49) 0731-1420-0, Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

SECTION 2: Hazards identification

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Flam. Liq.	3	H226-Flammable liquid and vapour.
STOT RE	1	H372-Causes damage to organs through prolonged or repeated exposure.
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
STOT SE	3	H336-May cause drowsiness or dizziness.
Aquatic Chronic	2	H411-Toxic to aquatic life with long lasting effects.

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

Flammable, R10
 Xn, Harmful, R48/20
 N, Dangerous for the environment, R51/53
 Xn, Harmful, R65
 R66
 R67

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H226-Flammable liquid and vapour. H372-Causes damage to organs through prolonged or repeated exposure. H304-May be fatal if swallowed and enters airways. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.
 P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260-Do not breathe vapours or spray.
 P271-Use only outdoors or in a well-ventilated area.
 P301+P310+P331-IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. P312-Call a POISON CENTER/doctor if you feel unwell.
 P405-Store locked up.
 P501-Dispose of contents/container safely.

EUH066-Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
 Xylene (mixture of isomers)
 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
 Hydrocarbons, C10, aromatics, >1% naphthalene

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

Hazardous to drinking water, on escape of even small quantities.

GB

Page 3 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	
Registration number (REACH)	01-2119458049-33-XXXX
Index	---
EINECS, ELINCS, NLP	919-446-0 (REACH-IT List-No.)
CAS	CAS ---
content %	80-100
Classification according to Directive 67/548/EEC	Flammable, R10 Harmful, Xn, R48/20 Dangerous for the environment, N, R51 Dangerous for the environment, R53 Harmful, Xn, R65 R66 R67
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
Registration number (REACH)	01-2119456620-43-XXXX
Index	---
EINECS, ELINCS, NLP	926-141-6 (REACH-IT List-No.)
CAS	CAS ---
content %	1-5
Classification according to Directive 67/548/EEC	Harmful, Xn, R65 R66
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304

Xylene (mixture of isomers)	
Registration number (REACH)	01-2119488216-32-XXXX
Index	601-022-00-9
EINECS, ELINCS, NLP	215-535-7
CAS	CAS 1330-20-7
content %	1-5
Classification according to Directive 67/548/EEC	Flammable, R10 Harmful, Xn, R20/21 Irritant, Xi, R36/37/38 Harmful, Xn, R65
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 STOT RE 2, H373

Hydrocarbons, C10, aromatics, >1% naphthalene	
Registration number (REACH)	01-2119463588-24-XXXX
Index	---
EINECS, ELINCS, NLP	919-284-0 (REACH-IT List-No.)
CAS	(64742-94-5)
content %	1-5

GB

Page 4 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

Classification according to Directive 67/548/EEC	Dangerous for the environment, N, R51/53 Harmful, Xn, R65 R66 R67
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411

Ethylbenzene	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119489370-35-XXXX
Index	601-023-00-4
EINECS, ELINCS, NLP	202-849-4
CAS	CAS 100-41-4
content %	0,1-<2,5
Classification according to Directive 67/548/EEC	Highly flammable, F, R11 Harmful, Xn, R20 Harmful, Xn, R48/20 Harmful, Xn, R65
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 Acute Tox. 4, H332 Asp. Tox. 1, H304 STOT RE 2, H373 (organs of hearing)

Naphthalene	Substance for which an EU exposure limit value applies.
Registration number (REACH)	--
Index	601-052-00-2
EINECS, ELINCS, NLP	202-049-5
CAS	CAS 91-20-3
content %	0,1-<1
Classification according to Directive 67/548/EEC	Harmful, Xn, R22 Carcinogen, R40, Carc.Cat.3 Dangerous for the environment, N, R50 Dangerous for the environment, R53
Classification according to Regulation (EC) 1272/2008 (CLP)	Carc. 2, H351 Acute Tox. 4, H302 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.
 The substances named in this section are given with their actual, appropriate classification!
 For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.
 If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.
 Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."
 Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

SECTION 4: First aid measures

4.1 Description of first aid measures

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 23.02.2015 / 0010
Replaces revision of / Version: 06.12.2013 / 0009
Valid from: 23.02.2015
PDF print date: 24.02.2015
Gold Label MOTO for Motor Bikes 300 mL
Art.: 2909

Ingestion

Rinse the mouth thoroughly with water.
Do not induce vomiting. Consult doctor immediately.
Danger of aspiration
In case of vomiting, keep head low so that the stomach content does not reach the lungs.
Immediate admittance to a hospital.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

irritation of the eyes
irritation of the respiratory tract
headaches
dizziness
effects/damages the central nervous system
Coordination disorders
mental confusion
unconsciousness
Blood count modifications
liver and kidney damage
With long-term contact:
drying of the skin.

Dermatitis (skin inflammation)

Ingestion:

nausea

Vomiting

Danger of aspiration

Oedema of the lungs

chemical pneumonitis (condition similar to pneumonia)

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

Gastric lavage (stomach washing) only under endotracheal intubation.

Pulmonary oedema prophylaxis

Subsequent observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂

Sand

Foam

Dry extinguisher

Cool container at risk with water.

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Toxic pyrolysis products.

Explosive vapour/air mixture

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 23.02.2015 / 0010
Replaces revision of / Version: 06.12.2013 / 0009
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PDF print date: 24.02.2015
Gold Label MOTO for Motor Bikes 300 mL
Art.: 2909

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.
Ensure sufficient supply of air.
Avoid inhalation, and contact with eyes or skin.
If applicable, caution - risk of slipping

6.2 Environmental precautions

If leakage occurs, dam up.
Resolve leaks if this possible without risk.
Prevent surface and ground-water infiltration, as well as ground penetration.
Prevent from entering drainage system.
If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.
Fill the absorbed material into lockable containers.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.
Avoid inhalation of the vapours.
Keep away from sources of ignition - Do not smoke.
Take measures against electrostatic charging, if appropriate.
Avoid contact with eyes or skin.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Observe directions on label and instructions for use.
Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.
Store product closed and only in original packing.
Not to be stored in gangways or stair wells.
Do not store with oxidizing agents.
Solvent resistant floor
Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").
Store in a well ventilated place.
Protect from direct sunlight and warming.
Store cool

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):
800 mg/m³

GB

Page 7 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

WEL-TWA: 800 mg/m ³	WEL-STEL: ---	---
BMGV: ---	Other information: (WEL acc. to RCP-method, EH40)	
Chemical Name	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Content %:1-5
WEL-TWA: 1200 mg/m ³ (>=C7 normal and branched chain alkanes)	WEL-STEL: 2(II) (AGW)	---
BMGV: ---	Other information: ---	
Chemical Name	Xylene (mixture of isomers)	Content %:1-5
WEL-TWA: 50 ppm (220 mg/m ³) (WEL), 50 ppm (221 mg/m ³) (EU)	WEL-STEL: 100 ppm (441 mg/m ³) (WEL), 100 ppm (442 mg/m ³) (EU)	---
BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, post shift (Xylene, o-, m-, p- or mixed isomers) (BMGV)	Other information: Sk (WEL)	
Chemical Name	Hydrocarbons, C10, aromatics, >1% naphthalene	Content %:1-5
WEL-TWA: 500 mg/m ³ (Aromatics)	WEL-STEL: ---	---
BMGV: ---	Other information: ---	
Chemical Name	Ethylbenzene	Content %:0,1-<2,5
WEL-TWA: 100 ppm (441mg/m ³) (WEL), 100 ppm (442 mg/m ³) (EU)	WEL-STEL: 125 ppm (552 mg/m ³) (WEL), 200 ppm (884 mg/m ³) (EU)	---
BMGV: ---	Other information: Sk (WEL)	
Chemical Name	Naphthalene	Content %:0,1-<1
WEL-TWA: 10 ppm (50 mg/m ³) (EU)	WEL-STEL: ---	---
BMGV: ---	Other information: ---	

GB WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

Xylene (mixture of isomers)						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - inhalation	Short term, local effects	DNEL	289	mg/m ³	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	289	mg/m ³	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	77	mg/m ³	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	180	mg/kg bw/day	
Consumer	Human - inhalation	Short term, local effects	DNEL	174	mg/m ³	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	174	mg/m ³	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	14,8	mg/m ³	
Consumer	Human - dermal	Long term, systemic effects	DNEL	108	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	1,6	mg/kg bw/day	

Naphthalene						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	3,57	mg/kg bw/day	

Page 8 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	25	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	25	mg/m3	
	Environment - freshwater		PNEC	2,4	µg/l	
	Environment - marine		PNEC	0,24	µg/l	
	Environment - sewage treatment plant		PNEC	2,9	mg/l	
	Environment - sediment, freshwater		PNEC	0,0672	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,0672	mg/kg dry weight	
	Environment - soil		PNEC	0,0533	mg/kg dry weight	

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
 Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedingstuffs.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:
 Solvent resistant protective gloves (EN 374).
 If applicable
 Protective Viton® / fluoroelastomer gloves (EN 374)
 Permeation time (penetration time) in minutes:
 > 480
 Minimum layer thickness in mm:
 0,4
 The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.
 The recommended maximum wearing time is 50% of breakthrough time.
 Protective hand cream recommended.

Skin protection - Other:
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Respiratory protection:
 If OES or MEL is exceeded.
 Gas mask filter A (EN 14387), code colour brown
 Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:
 Not applicable

Additional information on hand protection - No tests have been performed.
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.
 Selection of materials derived from glove manufacturer's indications.
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

Page 9 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Light yellow
Colour:	Clear
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	n.a.
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	39 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	0,67 Vol-% (Naphtha (petroleum), hydrodesulfurized heavy)
Upper explosive limit:	6,4 Vol-% (Naphtha (petroleum), hydrodesulfurized heavy)
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	0,805 g/ml (15°C)
Bulk density:	Not determined
Solubility(ies):	Organic solvents
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	<7 mm ² /s (40°C)
Explosive properties:	Possible build up of explosive/highly flammable vapour/air mixture. Product is not explosive.
Oxidising properties:	Not determined

9.2 Other information

Miscibility:	Not determined
Fat solubility / solvent:	Organic solvents
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No decomposition if used as intended.

10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Electrostatic charge

10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

Possibly more information on health effects, see Section 2.1 (classification).

Page 10 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

Gold Label MOTO for Motor Bikes 300 mL
Art.: 2909

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated value, Vapours
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated value, Aerosol
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Respiratory tract irritation:						n.d.a.
Repeated dose toxicity:						n.d.a.
Symptoms:						n.d.a.
Other information:						Classification according to calculation procedure.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Germ cell mutagenicity:						Negative
Carcinogenicity:						Negative Benzene content: <0,1%
Aspiration hazard:						Yes
Symptoms:						drying of the skin., headaches, nausea, respiratory distress, burning of the membranes of the nose and throat, coughing, fever, ear noises, hearing problems, drowsiness, unconsciousness, dizziness

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5000	mg/m3	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)	Analogous conclusion, Drying of the skin., Dermatitis (skin inflammation)
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Analogous conclusion, Slightly irritant
Respiratory or skin sensitisation:					OECD 406 (Skin Sensitisation)	Not sensitising (Analogous conclusion)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Analogous conclusion, Negative
Germ cell mutagenicity:					in vivo	Negative

GB

Page 11 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Analogous conclusion, Negative
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Analogous conclusion, Negative
Specific target organ toxicity - single exposure (STOT-SE):						Analogous conclusion, No indications of such an effect.
Specific target organ toxicity - repeated exposure (STOT-RE):					OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Analogous conclusion, Not to be expected
Aspiration hazard:						Harmful: may cause lung damage if swallowed.
Respiratory tract irritation:						Analogous conclusion, No indications of such an effect.
Symptoms:						drying of the skin., headaches, fatigue, dizziness, nausea

Xylene (mixture of isomers)

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3523	mg/kg	Rat	U.S. EPA Guideline OPPTS 870.1100	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		Does not conform with EU classification.
Acute toxicity, by inhalation:	LC50	29,09	mg/l/4h	Rat	Regulation (EC) 440/2008 B.2 (ACUTE TOXICITY (INHALATION))	Vapours, Does not conform with EU classification.
Skin corrosion/irritation:				Rabbit	(Draize-Test)	Irritant
Serious eye damage/irritation:				Rabbit		Irritant
Respiratory or skin sensitisation:					(Patch-Test)	Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Aspiration hazard:						Yes
Respiratory tract irritation:						Irritation of the respiratory tract
Symptoms:						breathing difficulties, drying of the skin., drowsiness, unconsciousness, burning of the membranes of the nose and throat, vomiting, skin afflictions, heart/circulatory disorders, coughing, headaches, drowsiness, dizziness, nausea

Ethylbenzene

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3500	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	15354	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	17,2	mg/l/4h	Rat		Vapours
Skin corrosion/irritation:				Rabbit		Mild irritant
Respiratory or skin sensitisation:				Human being	(Patch-Test)	Not sensitizing

GB

Page 12 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

Symptoms:						ataxia, respiratory distress, abdominal pain, drowsiness, unconsciousness, heart/circulatory disorders, coughing, headaches, cramps, fatigue, intoxication, drowsiness, mucous membrane irritation, shock, dizziness, nausea and vomiting.
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Naphthalene						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	490	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2500	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	>110	mg/l/4h			
Symptoms:						lack of appetite, ataxia, breathing difficulties, unconsciousness, diarrhoea, cornea opacity, headaches, cramps, gastrointestinal disturbances, mucous membrane irritation, dizziness, nausea and vomiting.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Gold Label MOTO for Motor Bikes 300 mL Art.: 2909							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and degradability:							Isolate as much as possible with an oil separator.
Bioaccumulative potential:							n.d.a.
Mobility in soil:							n.d.a.
Results of PBT and vPvB assessment							n.d.a.
Other adverse effects:							n.d.a.
Other information:							According to the recipe, contains no AOX.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	10	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EC50	48h	10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	

GB

Page 13 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

Toxicity to daphnia:	NOEC/NO EL	21d	0,097	mg/l	Daphnia magna		
Toxicity to algae:	EC50	72h	4,6	mg/l	Pseudokirchneriella subcapitata		
Toxicity to algae:	EL50	72h	4,1	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae:	NOELR	72h	0,76	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:							Readily biodegradable
Bioaccumulative potential:	Log Pow		3,7-6,7				
Toxicity to bacteria:	EC50		>100	mg/l			
Water solubility:			0,04	g/l			

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to fish:	NOELR	28d	0,17	mg/l	Oncorhynchus mykiss	QSAR	
Toxicity to daphnia:	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to daphnia:	NOELR	21d	1,22	mg/l	Daphnia magna	QSAR	
Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae:	ErL50	72h	>1000	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:		28d	69	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	
Persistence and degradability:		28d	69	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
Bioaccumulative potential:	Log Pow		6-8				
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Xylene (mixture of isomers)

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	20,9	mg/l	Lepomis macrochirus	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EC50	48h	1	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	

GB

Page 14 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

Toxicity to algae:	IC50	72h	4,36	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:			>60	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
Bioaccumulative potential:	BCF		25,9				
Bioaccumulative potential:	Log Pow		3				A notable biological accumulation potential is not to be expected (LogPow 1-3).
Results of PBT and vPvB assessment							n.a.

Hydrocarbons, C10, aromatics, >1% naphthalene

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	2-5	mg/l			
Toxicity to daphnia:	EC50	48h	3-10	mg/l			
Toxicity to algae:	EC50	72h	1 - 3	mg/l			
Persistence and degradability:							Inherent

Ethylbenzene

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	12,1	mg/l	Pimephales promelas		
Toxicity to fish:	LC50	96h	4,2	mg/l	Oncorhynchus mykiss		
Toxicity to daphnia:	EC50	48h	1,8	mg/l	Daphnia magna		
Toxicity to algae:	EC50	72h	4,6	mg/l	Pseudokirchneriella subcapitata		
Persistence and degradability:		6d	100	%		OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	
Bioaccumulative potential:	Log Pow		3,15				High
Other information:	BOD		1,78	g/g			
Other information:	ThOD		3,17	mg/l			

Naphthalene

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	0,51	mg/l			
Toxicity to daphnia:	EC50	48h	2,19	mg/l	Daphnia magna		
Toxicity to algae:	LC50	4h	2,96	mg/l	Selenastrum capricornutum		
Other information:	BOD5		0	%			
Other information:	COD		22	%			
Other information:	Log Pow		3,3				

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.
 Owing to the user's specific conditions for use and disposal, other waste codes may be

GB

Page 15 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)
 13 07 03 other fuels (including mixtures)

Recommendation:

Pay attention to local and national official regulations
 Implement substance recycling.
 E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld uncleaned container.



Residues may present a risk of explosion.

SECTION 14: Transport information



General statements

UN number: 1993


Transport by road/by rail (ADR/RID)

UN proper shipping name:  
 UN 1993 FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM), SOLVENT NAPHTHA)
 Transport hazard class(es): 3
 Packing group: III
 Classification code: F1
 LQ (ADR 2015): 5 L
 LQ (ADR 2009): 7
 Environmental hazards: environmentally hazardous
 Tunnel restriction code: D/E

Transport by sea (IMDG-code)

UN proper shipping name:  
 FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM), SOLVENT NAPHTHA)
 Transport hazard class(es): 3
 Packing group: III
 EmS: F-E, S-E
 Marine Pollutant: Yes
 Environmental hazards: environmentally hazardous

Transport by air (IATA)

UN proper shipping name: 
 Flammable liquid, n.o.s. (NAPHTHA (PETROLEUM), SOLVENT NAPHTHA)
 Transport hazard class(es): 3
 Packing group: III
 Environmental hazards: Not applicable

Special precautions for user

Persons employed in transporting dangerous goods must be trained.
 All persons involved in transporting must observe safety regulations.
 Precautions must be taken to prevent damage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.
 Minimum amount regulations have not been taken into account.
 Danger code and packing code on request.
 Comply with special provisions.

SECTION 15: Regulatory information

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

For classification and labelling see Section 2.

Observe restrictions:

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation).

Observe law on protection of expectant mothers (German regulation).

GB

Page 16 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

Directive 2010/75/EU (VOC): ~ 94,5 %
 Directive 2010/75/EU (VOC): 760,7 g/l

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections: 2, 3, 8, 11, 12

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Flam. Liq. 3, H226	Classification based on test data.
STOT RE 1, H372	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.

The following phrases represent the posted R phrases / H phrases, Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

- 10 Flammable.
- 11 Highly flammable.
- 20 Harmful by inhalation.
- 20/21 Harmful by inhalation and in contact with skin.
- 22 Harmful if swallowed.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 40 Limited evidence of a carcinogenic effect.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 50 Very toxic to aquatic organisms.
- 51 Toxic to aquatic organisms.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 53 May cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

- Flam. Liq. — Flammable liquid
- STOT RE — Specific target organ toxicity - repeated exposure
- Asp. Tox. — Aspiration hazard
- STOT SE — Specific target organ toxicity - single exposure - narcotic effects
- Aquatic Chronic — Hazardous to the aquatic environment - chronic

Page 17 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

Acute Tox. — Acute toxicity - dermal
 Skin Irrit. — Skin irritation
 Eye Irrit. — Eye irritation
 Acute Tox. — Acute toxicity - inhalation
 STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation
 Carc. — Carcinogenicity
 Acute Tox. — Acute toxicity - oral
 Aquatic Acute — Hazardous to the aquatic environment - acute

Any abbreviations and acronyms used in this document:

AC Article Categories
 acc., acc. to according, according to
 ACGIH American Conference of Governmental Industrial Hygienists
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
 AOEL Acceptable Operator Exposure Level
 AOX Adsorbable organic halogen compounds
 approx. approximately
 Art., Art. no. Article number
 ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
 BCF Bioconcentration factor
 BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)
 BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)
 BMGV Biological monitoring guidance value (EH40, UK)
 BOD Biochemical oxygen demand
 BSEF Bromine Science and Environmental Forum
 bw body weight
 CAS Chemical Abstracts Service
 CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids
 CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques
 CIPAC Collaborative International Pesticides Analytical Council
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
 CMR carcinogenic, mutagenic, reproductive toxic
 COD Chemical oxygen demand
 CTFA Cosmetic, Toiletry, and Fragrance Association
 DMEL Derived Minimum Effect Level
 DNEL Derived No Effect Level
 DOC Dissolved organic carbon
 DT50 Dwell Time - 50% reduction of start concentration
 DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)
 dw dry weight
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
 EC European Community
 ECHA European Chemicals Agency
 EEA European Economic Area
 EEC European Economic Community
 EINECS European Inventory of Existing Commercial Chemical Substances
 ELINCS European List of Notified Chemical Substances
 EN European Norms
 EPA United States Environmental Protection Agency (United States of America)
 ERC Environmental Release Categories
 ES Exposure scenario
 etc. et cetera
 EU European Union
 EWC European Waste Catalogue
 Fax. Fax number
 gen. general
 GHS Globally Harmonized System of Classification and Labelling of Chemicals

Page 18 of 19
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 23.02.2015 / 0010
 Replaces revision of / Version: 06.12.2013 / 0009
 Valid from: 23.02.2015
 PDF print date: 24.02.2015
 Gold Label MOTO for Motor Bikes 300 mL
 Art.: 2909

GWP Global warming potential
 HET-CAM Hen's Egg Test - Chorionallantoic Membrane
 HGWP Halocarbon Global Warming Potential
 IARC International Agency for Research on Cancer
 IATA International Air Transport Association
 IBC Intermediate Bulk Container
 IBC (Code) International Bulk Chemical (Code)
 IC Inhibitory concentration
 IMDG-code International Maritime Code for Dangerous Goods
 incl. including, inclusive
 IUCLID International Uniform Chemical Information Database
 LC lethal concentration
 LC50 lethal concentration 50 percent kill
 LCLo lowest published lethal concentration
 LD Lethal Dose of a chemical
 LD50 Lethal Dose, 50% kill
 LDLo Lethal Dose Low
 LOAEL Lowest Observed Adverse Effect Level
 LOEC Lowest Observed Effect Concentration
 LOEL Lowest Observed Effect Level
 LQ Limited Quantities
 MARPOL International Convention for the Prevention of Marine Pollution from Ships
 n.a. not applicable
 n.av. not available
 n.c. not checked
 n.d.a. no data available
 NIOSH National Institute of Occupational Safety and Health (United States of America)
 NOAEC No Observed Adverse Effective Concentration
 NOAEL No Observed Adverse Effect Level
 NOEC No Observed Effect Concentration
 NOEL No Observed Effect Level
 ODP Ozone Depletion Potential
 OECD Organisation for Economic Co-operation and Development
 org. organic
 PAH polycyclic aromatic hydrocarbon
 PBT persistent, bioaccumulative and toxic
 PC Chemical product category
 PE Polyethylene
 PNEC Predicted No Effect Concentration
 POCP Photochemical ozone creation potential
 ppm parts per million
 PROC Process category
 PTFE Polytetrafluorethylene
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
 SADT Self-Accelerating Decomposition Temperature
 SAR Structure Activity Relationship
 SU Sector of use
 SVHC Substances of Very High Concern
 Tel. Telephone
 ThOD Theoretical oxygen demand
 TOC Total organic carbon
 TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
 UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
 VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
 VOC Volatile organic compounds
 vPvB very persistent and very bioaccumulative
 WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).
 WHO World Health Organization

GB

Page 19 of 19
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 23.02.2015 / 0010
Replaces revision of / Version: 06.12.2013 / 0009
Valid from: 23.02.2015
PDF print date: 24.02.2015
Gold Label MOTO for Motor Bikes 300 mL
Art.: 2909

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.

These statements were made by:

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