

GB

Page 1 of 22
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 05.08.2016 / 0003
Replacing version dated / version: 24.03.2014 / 0002
Valid from: 05.08.2016
PDF print date: 10.08.2016
Spark plug/injector loosener 500 ml
Art.: 188013

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

Spark plug/injector loosener 500 ml
Art.: 188013

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

Relevant identified uses of the substance or mixture:

Rust solvent

Sector of use [SU]:

SU 0 - Other

SU 1 - Agriculture, forestry, fishery

SU19 - Building and construction work

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

Chemical product category [PC]:

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC11 - Non industrial spraying

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC99 - Not required.

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

E

Berner Montaje y Fijación, S.L. P.I. "La Rosa VI", C/ Albert Berner, 2, 18330 Chauchina - Granada, Spain

Phone: +34 90 21 03 504, Fax: +34 90 21 13 190

berner-spain@berner.es, www.berner.es

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

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

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

Revision date / version: 05.08.2016 / 0003

Replacing version dated / version: 24.03.2014 / 0002

Valid from: 05.08.2016

PDF print date: 10.08.2016

Spark plug/injector loosener 500 ml

Art.: 188013

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

2.2 Label elements

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



Danger

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

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use.
P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Without adequate ventilation, formation of explosive mixtures may be possible.

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 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

GB

Page 3 of 22

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

Revision date / version: 05.08.2016 / 0003

Replacing version dated / version: 24.03.2014 / 0002

Valid from: 05.08.2016

PDF print date: 10.08.2016

Spark plug/injector loosener 500 ml

Art.: 188013

Aerosol

3.1 Substance

n.a.

3.2 Mixture

Butane	
Registration number (REACH)	--
Index	601-004-00-0
EINECS, ELINCS, NLP	203-448-7
CAS	106-97-8
content %	40-80
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Gas 1, H220

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	
Registration number (REACH)	01-2119458869-15-XXXX
Index	---
EINECS, ELINCS, NLP	925-653-7 (REACH-IT List-No.)
CAS	(64742-81-0)
content %	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304 Aquatic Chronic 3, H412

Propane	
Registration number (REACH)	--
Index	601-003-00-5
EINECS, ELINCS, NLP	200-827-9
CAS	74-98-6
content %	10-20
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Gas 1, H220

Isobutane	
Registration number (REACH)	--
Index	601-004-00-0
EINECS, ELINCS, NLP	200-857-2
CAS	75-28-5
content %	2,5-5
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Gas 1, H220

For the text of the 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.

SECTION 4: First aid measures

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

Revision date / version: 05.08.2016 / 0003

Replacing version dated / version: 24.03.2014 / 0002

Valid from: 05.08.2016

PDF print date: 10.08.2016

Spark plug/injector loosener 500 ml

Art.: 188013

4.1 Description of first aid measures

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.

Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration

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.

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

The following may occur:

Irritation of the respiratory tract

Coughing

Headaches

Dizziness

Other dangerous properties cannot be ruled out.

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂

Extinguishing powder

Water jet spray

Alcohol resistant foam

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

Toxic gases

Danger of bursting (explosion) when heated

Explosive vapour/air mixture

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

Revision date / version: 05.08.2016 / 0003

Replacing version dated / version: 24.03.2014 / 0002

Valid from: 05.08.2016

PDF print date: 10.08.2016

Spark plug/injector loosener 500 ml

Art.: 188013

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.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

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

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Without adequate ventilation, formation of explosive mixtures may be possible.

Active substance:

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

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.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

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.

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Page 6 of 22
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 05.08.2016 / 0003
 Replacing version dated / version: 24.03.2014 / 0002
 Valid from: 05.08.2016
 PDF print date: 10.08.2016
 Spark plug/injector loosener 500 ml
 Art.: 188013

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.
 Not to be stored in gangways or stair wells.
 Store product closed and only in original packing.
 Do not store with flammable or self-igniting materials.
 Observe special storage conditions.
 Observe special regulations for aerosols!
 Keep protected from direct sunlight and temperatures over 50°C.
 Store in a well-ventilated place.
 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

Ⓢ	Chemical Name	Butane	Content %: 40-80
	WEL-TWA:	600 ppm (1450 mg/m ³)	WEL-STEL: 750 ppm (1810 mg/m ³) ---
	Monitoring procedures:	- Compur - KITA-221 SA (549 459)	
	BMGV:	---	Other information: ---

Ⓢ	Chemical Name	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Content %: 10-<25
	WEL-TWA:	800 mg/m ³	WEL-STEL: --- ---
	Monitoring procedures:	- Draeger - Hydrocarbons 2/a (81 03 581) - Draeger - Hydrocarbons 0,1%/c (81 03 571) - Compur - KITA-187 S (551 174)	
	BMGV:	---	Other information: (WEL acc. to RCP-method, EH40)

Ⓢ	Chemical Name	Propane	Content %: 10-20
	WEL-TWA:	1000 ppm (ACGIH)	WEL-STEL: --- ---
	Monitoring procedures:	- Compur - KITA-125 SA (549 954)	
	BMGV:	---	Other information: ---

Ⓢ	Chemical Name	Isobutane	Content %: 2,5-5
	WEL-TWA:	1000 ppm (ACGIH)	WEL-STEL: --- ---
	Monitoring procedures:	- Compur - KITA-113 SB(C) (549 368)	
	BMGV:	---	Other information: ---

Ⓢ WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). |

Page 7 of 22

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

Revision date / version: 05.08.2016 / 0003

Replacing version dated / version: 24.03.2014 / 0002

Valid from: 05.08.2016

PDF print date: 10.08.2016

Spark plug/injector loosener 500 ml

Art.: 188013

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.

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).

Recommended

Protective nitrile gloves (EN 374)

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

480

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:

Normally not necessary.

If OES or MEL is exceeded.

Filter A2 P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Page 8 of 22

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

Revision date / version: 05.08.2016 / 0003

Replacing version dated / version: 24.03.2014 / 0002

Valid from: 05.08.2016

PDF print date: 10.08.2016

Spark plug/injector loosener 500 ml

Art.: 188013

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Aerosol, Active substance: Liquid
Colour:	Turbid
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	n.a.
Flash point:	n.a.
Evaporation rate:	Not determined
Flammability (solid, gas):	n.a.
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	0,8 g/cm ³ (20°C)
Bulk density:	Not determined
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	No
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	Product is not explosive. Creation of explosive dust/air mixtures possible.
Oxidising properties:	No

9.2 Other information

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

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 05.08.2016 / 0003
 Replacing version dated / version: 24.03.2014 / 0002
 Valid from: 05.08.2016
 PDF print date: 10.08.2016
 Spark plug/injector loosener 500 ml
 Art.: 188013

SECTION 10: Stability and reactivity

10.1 Reactivity

Not to be expected

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials

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

11.1 Information on toxicological effects

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

Spark plug/injector loosener 500 ml Art.: 188013

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
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.

GB

Page 10 of 22
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 05.08.2016 / 0003
 Replacing version dated / version: 24.03.2014 / 0002
 Valid from: 05.08.2016
 PDF print date: 10.08.2016
 Spark plug/injector loosener 500 ml
 Art.: 188013

Symptoms:						n.d.a.
Other information:						Classification according to calculation procedure.

Butane

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4 h	Rat		
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Symptoms:						ataxia, breathing difficulties, drowsiness, unconsciousness, frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting.

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5060	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	~ 3400	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>13,1	mg/l/4 h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Acute toxicity, by inhalation:	LC50	13,1	mg/l/4 h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Repeated exposure may cause skin dryness or cracking.

GB

Page 11 of 22
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 05.08.2016 / 0003
 Replacing version dated / version: 24.03.2014 / 0002
 Valid from: 05.08.2016
 PDF print date: 10.08.2016
 Spark plug/injector loosener 500 ml
 Art.: 188013

Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizing
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative
Reproductive toxicity:	NOAEC	>= 300	ppm	Rat	OECD 421 (Reproduction/Developmental Toxicity Screening Test)	Negative
Aspiration hazard:						Yes
Symptoms:						Oedema of the lungs, Chemical pneumonitis (condition similar to pneumonia), drowsiness, unconsciousness, headaches, dizziness, drying of the skin., Gastrointestinal disturbances, Irritation of the mouth and throat

Propane

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative

GB

Page 13 of 22
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 05.08.2016 / 0003
 Replacing version dated / version: 24.03.2014 / 0002
 Valid from: 05.08.2016
 PDF print date: 10.08.2016
 Spark plug/injector loosener 500 ml
 Art.: 188013

12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							The surfactant(s) contained in this mixture complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.

GB

Page 14 of 22
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 05.08.2016 / 0003
 Replacing version dated / version: 24.03.2014 / 0002
 Valid from: 05.08.2016
 PDF print date: 10.08.2016
 Spark plug/injector loosener 500 ml
 Art.: 188013

12.6. Other adverse effects:							n.d.a.
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Butane

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	Log Pow		2,98				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	10-100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LL50	96h	10-30	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	10-22	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EL50	48h	10-22	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	4,6-10	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOELR	72h	1	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	

Page 15 of 22
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 05.08.2016 / 0003
 Replacing version dated / version: 24.03.2014 / 0002
 Valid from: 05.08.2016
 PDF print date: 10.08.2016
 Spark plug/injector loosener 500 ml
 Art.: 188013

12.2. Persistence and degradability:		28d	74,7	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:							To be expected
12.4. Mobility in soil:							n.a.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.6. Other adverse effects:							Product floats on the water surface.
Other information:							Isolate as much as possible with an oil separator.
Water solubility:							Insoluble

Propane

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	Log Pow		2,28				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

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 allocated under certain circumstances. (2014/955/EU)


GB

Page 16 of 22
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 05.08.2016 / 0003
 Replacing version dated / version: 24.03.2014 / 0002
 Valid from: 05.08.2016
 PDF print date: 10.08.2016
 Spark plug/injector loosener 500 ml
 Art.: 188013


14 06 03 other solvents and solvent mixtures
 16 05 04 gases in pressure containers (including halons) containing hazardous substances
 Recommendation:
 Sewage disposal shall be discouraged.
 Pay attention to local and national official regulations.
 Take full aerosol cans to problem waste collection.
 Take emptied aerosol cans to valuable material collection.
For contaminated packing material
 Pay attention to local and national official regulations.
 Recommendation:
 Do not perforate, cut up or weld uncleaned container.
 Recycling
 15 01 04 metallic packaging

SECTION 14: Transport information


General statements

14.1. UN number:	1950	
Transport by road/by rail (ADR/RID)		
14.2. UN proper shipping name:		
UN 1950 AEROSOLS		
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	-	
Classification code:	5F	
LQ (ADR 2015):	1 L	
14.5. Environmental hazards:	Not applicable	
Tunnel restriction code:	D	

Transport by sea (IMDG-code)

14.2. UN proper shipping name:		
AEROSOLS		
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	-	
EmS:	F-D, S-U	
Marine Pollutant:	n.a	
14.5. Environmental hazards:	Not applicable	

Transport by air (IATA)

14.2. UN proper shipping name:		
Aerosols, flammable		
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	-	
14.5. Environmental hazards:	Not applicable	

14.6. 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.

14.7. Transport in bulk according to Annex II of MARPOL 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.

GB

Page 17 of 22
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 05.08.2016 / 0003
 Replacing version dated / version: 24.03.2014 / 0002
 Valid from: 05.08.2016
 PDF print date: 10.08.2016
 Spark plug/injector loosener 500 ml
 Art.: 188013

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).

Directive 2010/75/EU (VOC): 584,2 g/l

REGULATION (EC) No 648/2004

30 % and more

aliphatic hydrocarbons

less than 5 %

aromatic hydrocarbons

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 1 - 16

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Employee training in handling dangerous goods is required.

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
Aerosol 1, H222	Classification based on test data.
Aerosol 1, H229	Classification based on test data.

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

H304 May be fatal if swallowed and enters airways.

H220 Extremely flammable gas.

H412 Harmful to aquatic life with long lasting effects.

Aerosol — Aerosols

Flam. Gas — Flammable gases (including chemically unstable gases)

Asp. Tox. — Aspiration hazard

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Page 18 of 22

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

Revision date / version: 05.08.2016 / 0003

Replacing version dated / version: 24.03.2014 / 0002

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Spark plug/injector loosener 500 ml

Art.: 188013

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Page 19 of 22
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 05.08.2016 / 0003
Replacing version dated / version: 24.03.2014 / 0002
Valid from: 05.08.2016
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Spark plug/injector loosener 500 ml
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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

Page 20 of 22
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 05.08.2016 / 0003
Replacing version dated / version: 24.03.2014 / 0002
Valid from: 05.08.2016
PDF print date: 10.08.2016
Spark plug/injector loosener 500 ml
Art.: 188013

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
GWP Global warming potential
HET-CAM Hen's Egg Test - Chorionallantoic Membrane
HGWP Halocarbon Global Warming Potential

Page 21 of 22

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

Revision date / version: 05.08.2016 / 0003

Replacing version dated / version: 24.03.2014 / 0002

Valid from: 05.08.2016

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Spark plug/injector loosener 500 ml

Art.: 188013

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

GB

Page 22 of 22

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

Revision date / version: 05.08.2016 / 0003

Replacing version dated / version: 24.03.2014 / 0002

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PDF print date: 10.08.2016

Spark plug/injector loosener 500 ml

Art.: 188013

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

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.