

Safety Data Sheet dated 19/9/2011, version 1

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

Mixture identification:

Trade name:

SPRAY CONDENSER CLEANER

Trade code:

11.022-11.022.500

### 1.2 Relevant identified uses of the substance/mixture and uses advised against

Recommended use:

AGENT OF SURFACE DEGREASER

### 1.3 Details of the supplier of the safety data sheet

Company:

Magneti Marelli Aftermarket Sp. z o.o.

Plac pod Lipami 5

40-476 Katowice, Poland

+48 32 60 36 146

Competent person responsible for the safety data sheet:

Grzegorz Jurczuk checkstar@magnetimarelli.com

### 1.4 Emergency telephone number

999 or 112

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

F+ Extremely flammable

R Phrases:

R12 Extremely flammable.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2 Label elements



F+

Symbols:

F+ Extremely flammable

R Phrases:

R12 Extremely flammable.

S Phrases:

S16 Keep away from sources of ignition - No smoking.

S2 Keep out of reach of children.

S23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

S46 If swallowed, seek medical advice immediately and show this container or label.

S51 Use only in well-ventilated areas.

S9 Keep container in a well-ventilated place.

Special Provisions:

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of reach of children.

### 2.3 Other hazards

Other Hazards:

No other hazards

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

N.A.

### 3.2 Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and corresponding classification:


7% - 10% propane

N.67/548/CEE: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9

F+; R12; substance with a Community workplace exposure limit





 2.2/1 Flam. Gas 1 H220

 2.5 Press. Gas H280

3% - 5% butane


N.67/548/CEE: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7  
F+; R12; substance with a Community workplace exposure limit


 2.2/1 Flam. Gas 1 H220

 2.5 Press. Gas H280

1% - 3% butane


N.67/548/CEE: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2  
F+; R12; substance with a Community workplace exposure limit


 2.2/1 Flam. Gas 1 H220


 2.5 Press. Gas H280

0.1% - 0.25% 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve

N.67/548/CEE: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0  
Xn,Xi; R20/21/22-36/38

 3.3/2 Eye Irrit. 2 H319

 3.2/2 Skin Irrit. 2 H315

 3.1/4/Oral Acute Tox. 4 H302

 3.1/4/Dermal Acute Tox. 4 H312

 3.1/4/Inhal Acute Tox. 4 H332

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#### 4. FIRST AID MEASURES

##### 4.1 Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

Treatment:

None

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#### 5. FIRE-FIGHTING MEASURES

##### 5.1 Extinguishing media

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

None in particular.

##### 5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

##### 5.3 Advice for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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#### 6. ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal precautions, protective equipment and emergency procedures



Wear personal protection equipment.  
Remove all sources of ignition.  
Remove persons to safety.  
See protective measures under point 7 and 8.

#### 6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
Suitable material for taking up: absorbing material, organic, sand

#### 6.3 Methods and material for containment and cleaning up

Wash with plenty of water.

#### 6.4 Reference to other sections

See also section 8 and 13

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### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

Avoid contact with skin and eyes, inhalation of vapours and mists.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.

#### 7.2 Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.  
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.  
Keep away from food, drink and feed.  
Incompatible materials:  
None in particular.  
Instructions as regards storage premises:  
Cool and adequately ventilated.

#### 7.3 Specific end use(s)

None in particular

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

propane - Index: 601-003-00-5, CAS: 74-98-6, EC No: 200-827-9  
TLV TWA: 1000 ppm  
butane - Index: 601-004-00-0, CAS: 106-97-8, EC No: 203-448-7  
TLV TWA: 1000 ppm  
butane - Index: 601-004-00-0, CAS: 75-28-5, EC No: 200-857-2  
TLV TWA: 1000 ppm  
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - Index: 603-014-00-0, CAS: 111-76-2, EC No: 203-905-0  
VLE 8h: 98 mg/m<sup>3</sup> - 20 ppm  
VLE short: 246 mg/m<sup>3</sup> - 50 ppm  
TLV TWA: 20 ppm, A3 - 96,66 mg/m<sup>3</sup>, A3  
TLV STEL: A3

#### 8.2 Exposure controls

##### Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

##### Protection for skin:

No special precaution must be adopted for normal use.

##### Protection for hands:

Not needed for normal use.

##### Respiratory protection:

Use adequate protective respiratory equipment, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

##### Thermal Hazards:

None

##### Environmental exposure controls:

None

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance and colour:	Spray can
Odour:	characteristic
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.



Upper/lower flammability or explosive limits:	N.A.
Vapour density:	> 1
Flash point:	< 0 ° C
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	1,06 kg/l
Solubility in water:	undissolvable
Lipid solubility:	complete
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.
9.2 Other information	
Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

None

### 10.4 Conditions to avoid:

Stable under normal conditions.

### 10.5 Incompatible materials:

Avoid contact with combustible materials. The product could catch fire.

### 10.6 Hazardous decomposition products:

None.

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

The product does not contain toxicologically relevant substances.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment.

### 12.2 Persistence and degradability

None

### 12.3 Bioaccumulative potential

N.A.

### 12.4 Mobility in soil

N.A.

### 12.5 Results of PBT and vPvB assessment

### 12.6 Other adverse effects

None

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## 14. TRANSPORT INFORMATION

### 14.1 UN number:

### 14.2 UN proper shipping name:

N.A.

### 14.3 Transport hazard class(es):

ADR-Class: 2.5°F CAP. 2.2.2.1.6 UN1950



IATA-Class:	2.1
IMDG-Class:	2 Aerosols UN 1950
N.A.	
14.4 Packing Group:	
N.A.	
14.5 Environmental hazards	
Marine pollutant:	No
N.A.	
14.6 Special Precautions for User	
IMDG-Page:	2102
N.A.	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
Environmental Pollutant:	
No	

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## 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n. 1272/2008 (CLP), Regulation (CE) n. 790/2009 (1° ATP CLP), Regulation (EU) n. 453/2010 (Annex I).

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.  
Regulation (EC) nr 648/2004 (detergents).

15.2 Chemical Safety Assessment  
No

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## 16. OTHER INFORMATION

Text of phrases referred to under heading 3:

R12 Extremely flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/38 Irritating to eyes and skin.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
Kst:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).



WGK:

German Water Hazard Class.