## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 12-07-17 Revision date: 12-07-17 Version: 1.0

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

**Product identifier** 

Product form : Mixture

Product name : BRAKE CLEANER AUTOPLUS Product code : PN1022 # 732102PNR0 Type of product : Aerosol, Detergent

Vaporizer : Aerosol

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

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Consumer use

#### 1.2.2. Uses advised against

No additional information available

## Details of the supplier of the safety data sheet

ADDITIVES & LUBRICANTS SA 24 Chemin du Pré-Moineau 1253 VANDOEUVRES - SUISSE

T +41 (0) 22 525 45 30

info@autoplus-additives.com - www.autoplus-additives.com

#### 1.4. **Emergency telephone number**

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	

## **SECTION 2: Hazards identification**

### Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol, Category 1 H222;H229 Skin corrosion/irritation, Category 2 H315 Specific target organ toxicity — Single H336 exposure, Category 3, Narcosis

Hazardous to the aquatic environment —

H411

Chronic Hazard, Category 2

Full text of H statements : see section 16

## Adverse physicochemical, human health and environmental effects

No additional information available

## Label elements

## Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







Signal word (CLP)

Hazardous ingredients : Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C6, isoalkanes, <5% n-

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hexane

Hazard statements (CLP) : H222 - Extremely flammable aerosol

H229 - Pressurised container: May burst if heated

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children P260 - Do not breathe gas, spray

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear protective gloves

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor

P302+P352 - IF ON SKIN: Wash with plenty of water P312 - Call a POISON CENTER, a doctor if you feel unwell

P391 - Collect spillage P405 - Store locked up

P501 - Dispose of contents/container to a hazardous or special waste collection point

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/122 °F

Extra phrases : Use as per instructions and specifically for this purpose.

Security closing plug for children : Not applicable Tactile warning : Not applicable

#### 2.3. Other hazards

No additional information available

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	(EC-No.) 927-510-4 (REACH-no) 01-2119475515-33	> 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C6, isoalkanes, <5% n-hexane	(EC-No.) 931-254-9 (REACH-no) 01-2119484651-34	15 - 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
butane (<0.1% (203-450-8)) substance with national workplace exposure limit(s) (FR) (Note C)(Note U)	(CAS-No.) 106-97-8 (EC-No.) 203-448-7	15 - 30	Flam. Gas 1, H220
propane (Note U)	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (REACH-no) Annex V	5 - 15	Flam. Gas 1, H220
n-hexane	(CAS-No.) 110-54-3 (EC-No.) 203-777-6 (EC Index-No.) 601-037-00-0	< 5	Flam. Liq. 2, H225 Repr. 2, H361f Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
cyclohexane	(CAS-No.) 110-82-7 (EC-No.) 203-806-2 (EC Index-No.) 601-017-00-1	< 5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
n-hexane	(CAS-No.) 110-54-3 (EC-No.) 203-777-6 (EC Index-No.) 601-037-00-0	(C >= 5) STOT RE 2, H373

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note U: When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Full text of H-statements: see section 16

#### **SECTION 4: First aid measures**

#### **Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If medical advice is needed, have

product container or label at hand.

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for First-aid measures after inhalation

Remove contaminated clothes. Wash skin with plenty of water. Wash contaminated clothing First-aid measures after skin contact

before reuse. Get medical advice/attention.

First-aid measures after eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get immediate medical advice/attention.

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or First-aid measures after ingestion

doctor/physician. Get immediate medical advice/attention.

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

Symptoms/effects after inhalation : May cause drowsiness or dizziness. Sore throat. Cough. Shortness of breath.

Causes skin irritation. Redness, pain. Symptoms/effects after skin contact

Symptoms/effects after eye contact : Redness, pain.

Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea. Abdominal cramps. Drowsiness.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## **Extinguishing media**

Suitable extinguishing media Carbon dioxide. Water spray. Dry powder. Foam. Cool down the containers exposed to heat

with a water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Extremely flammable aerosol. Pressurised container: May burst if heated.

Explosion hazard Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of

Hazardous decomposition products in case of

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic

#### **Advice for firefighters**

Firefighting instructions : Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Prevent liquid from entering sewers, watercourses, underground or low areas.

# **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

General measures

: Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation, especially in confined areas. Keep public away from danger area. Equip cleanup crew with proper protection.

#### 6.1.1. For non-emergency personnel

No additional information available

## For emergency responders

No additional information available

# **Environmental precautions**

Dike for recovery or absorb with appropriate material. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters

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

For containment : Recover the product with absorbent material.

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13: "Disposal considerations".

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed : Extremely flammable aerosol. Pressurised container: May burst if heated.

Precautions for safe handling : Do not eat, drink or smoke when using this product. Provide good ventilation in process area to

prevent formation of vapour. For further information refer to section 8: "Exposure controls/personal protection". Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

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

Technical measures : Provide local exhaust or general room ventilation.

Storage conditions : Keep out of frost.

Heat and ignition sources : Keep away from naked flames/heat. Keep away from ignition sources. Do not expose to

temperatures exceeding 50 °C/ 122 °F.

Information on mixed storage : Keep away from food, drink and animal feeding stuffs. Storage area : Store in a well-ventilated place. Store in a dry place.

Special rules on packaging : Store in original container.

### 7.3. Specific end use(s)

No additional information available

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics		
France	VME (mg/m³)	1600 mg/m³
France	VME (ppm)	395 ppm
France	VLE (mg/m³)	903 mg/m³
Hydrocarbons, C6, isoalkane	es, <5% n-hexane	
France	VME (mg/m³)	1000 mg/m³
France	VLE (mg/m³)	1500 mg/m³
butane (<0.1% (203-450-8)) (106-97-8)		
France	VME (mg/m³)	1900 mg/m³
France	VME (ppm)	800 ppm
USA - ACGIH	ACGIH TWA (mg/m³)	1,928 mg/m³
propane (74-98-6)		
USA - ACGIH	ACGIH TWA (mg/m³)	1800 mg/m³
n-hexane (110-54-3)		
France	VLE (mg/m³)	72 mg/m³

#### 8.2. Exposure controls

## Hand protection:

Gloves. EN 374

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.35	3 (> 0.65)	EN 374

#### Eye protection:

Safety glasses. EN 166

Туре	Use	Characteristics	Standard
Safety glasses		With side shields	EN 166

#### Skin and body protection:

Wear suitable protective clothing

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#### Respiratory protection:

Good ventilation of the workplace required. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment

Device	Filter type	Condition	Standard
Breathing equipment	Gas/vapour filter	Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit	







## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.

Colour : No data available
Odour : characteristic.
Odour threshold : No data available
pH : No data available

Relative evaporation rate (butylacetate=1) : 7 Melting point :  $0 \,^{\circ}$ C

Freezing point : No data available
Boiling point : -57 - 95 °C
Flash point : -20 °C
Auto-ignition temperature : 365 °C

Decomposition temperature : No data available : No data available Flammability (solid, gas) : 853000 Pa (20°C) Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available : 0,721 kg/l (20°C) Density Solubility : insoluble in water. Log Pow : No data available Viscosity, kinematic : 1 mm<sup>2</sup>/s (40°C) Viscosity, dynamic : 1 mPa.s (20°C) Explosive properties : No data available : No data available Oxidising properties Lower explosive limit (LEL) : 1,1 vol % Upper explosive limit (UEL) : 9,5 vol %

9.2. Other information

VOC content : 619,85 g/l (95%)

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions. Contains gas under pressure; may explode if heated.

## 10.3. Possibility of hazardous reactions

Extremely flammable aerosol. Pressurised container: May burst if heated.

### 10.4. Conditions to avoid

Heat. Open flame. Sparks. Water, humidity. Freezing.

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#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	
LD50 oral rat	> 5840 mg/kg
LD50 dermal	> 2920 mg/kg
LC50 inhalation rat (mg/l)	23.3 mg/l/4h

Hydrocarbons, C6, isoalkanes, <5% n-hexane	
LD50 oral rat	> 1650 mg/kg
LD50 dermal rabbit	> 3360 mg/kg 4h
LC50 inhalation rat (mg/l)	259,354 g/m³

butane (<0.1% (203-450-8)) (106-97-8)	
LD50 oral rat	>= 5000 mg/kg
LD50 dermal rabbit	>= 5000 mg/kg
LC50 inhalation rat (mg/l)	>= 50 mg/l/4h

propane (74-98-6)		
LD50 oral rat	>= 5000 mg/kg	
LD50 dermal rabbit	>= 5000 mg/kg	
LC50 inhalation rat (mg/l)	>= 50 mg/l/4h	

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

BRAKE CLEANER AUTOPLUS	
Vaporizer	Aerosol
Viscosity, kinematic	1 mm <sup>2</sup> /s (40°C)

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	
LC50 fish 1	> 13,4
EC50 Daphnia 1	3 mg/l 48 hours
EC50 72h algae (1)	10 - 30 mg/l

### 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

butane (<0.1% (203-450-8)) (106-97-8)	
Log Pow	2,89
3	_,-,-

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## 12.4. Mobility in soil

12.4. Mobility III 3011			
BRAKE CLEANER AUTOPLUS			
Ecology - soil	insoluble in water.		

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of this material and its container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

Sewage disposal recommendations : Do not discharge into drains or the environment.

Product/Packaging disposal recommendations : Collect all waste in suitable and labelled containers and dispose according to local legislation.

Dispose used or damaged aerosol cans at permitted disposal sites.

Additional information : Empty the packaging completely prior to disposal. Do not re-use empty containers.

Ecology - waste materials : Do not discharge the product into the environment.

European List of Waste (LoW) code : 14 06 00 - waste organic solvents, refrigerants and foam/aerosol propellants

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	RID
14.1. UN number			
1950	1950	1950	1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS
Transport document description			
UN 1950 AEROSOLS (CONTAINS ; butane (<0.1% (203-450-8)) ; propane), 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONMENTALL Y HAZARDOUS	UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)			
2.1	2.1	2.1	2.1
	2	2	¥2
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available			

## 14.6. Special precautions for user

## - Overland transport

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 1I Excepted quantities (ADR) : E0

Packing instructions (ADR) : P207, LP02 Special packing provisions (ADR) : PP87, RR6, L2

Mixed packing provisions (ADR): MP9Transport category (ADR): 2Special provisions for carriage - Packages: V14

(ADR)

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Special provisions for carriage - Loading, : CV9, CV12

unloading and handling (ADR)

Special provisions for carriage - Operation : S2

(ADR)

Tunnel restriction code (ADR) : D

- Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 959

Limited quantities (IMDG) : SP277

Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P207, LP02

Special packing provisions (IMDG) : PP87, L2

EmS-No. (Fire) : F-D

EmS-No. (Spillage) : S-U

Stowage category (IMDG) : None

Stowage and handling (IMDG) : SW1, SW22

Segregation (IMDG) : SG69

- Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg

Special provisions (IATA) : A145, A167, A802

ERG code (IATA) : 10L

- Rail transport

Classification code (RID) : 5F

Special provisions (RID) : 190, 327, 344, 625

Limited quantities (RID) : 1L Excepted quantities (RID) : E0

Packing instructions (RID) : P207, LP02 Special packing provisions (RID) : PP87, RR6, L2

Mixed packing provisions (RID) : MP9
Transport category (RID) : 2
Special provisions for carriage – Packages : W14

(RID)

Special provisions for carriage - Loading, : CW9, CW12

unloading and handling (RID)

Colis express (express parcels) (RID) : CE2
Hazard identification number (RID) : 23

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

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

## 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 619,85 g/l (95%)

Detergent Regulation: Labelling of contents:

gg			
	Component	%	
	aliphatic hydrocarbons	>=30%	

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#### 15.1.2. **National regulations**

#### France

Occupational diseases RG 59 - Intoxications professionnelles par l'hexane

RG 84 - Affections engendrées par les solvants organiques liquides à usage professionnel

Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: None of the components are listed

: None of the components are listed

: None of the components are listed

: n-hexane is listed

: None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the

product

The requirements from the Danish Working Environment Authorities regarding work with

carcinogens must be followed during use and disposal

#### **Chemical safety assessment**

No additional information available

## **SECTION 16: Other information**

## Full text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
Flam. Gas 1	Flammable gases, Category 1	
Flam. Liq. 2	Flammable liquids, Category 2	
Repr. 2 Reproductive toxicity, Category 2		
Skin Irrit. 2 Skin corrosion/irritation, Category 2		
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	
H220	Extremely flammable gas	
H222	Extremely flammable aerosol	
H225	Highly flammable liquid and vapour	
H229	Pressurised container: May burst if heated	
H304	May be fatal if swallowed and enters airways	
H315	Causes skin irritation	
H336	May cause drowsiness or dizziness	
H361f	Suspected of damaging fertility	
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	

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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