

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 3-12-2018 Revision date: 29-1-2019 Supersedes: 28-1-2019 Version: 1.2

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

1.1. Product identifier

Product form : Mixture

Trade name : Brake Cleaner CO2 AE

Product code : 09.20.25

Type of product : Detergent

Vaporizer : Aerosol

Product group : Trade product

#### 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 : Industrial use, Professional use, Consumer use

Use of the substance/mixture : Cleaner for brakes

## 1.2.2. Uses advised against

No additional information available

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

Kroon Oil BV Dollegoorweg 15 7602 EC Almelo - Netherlands T 0031 (0)546 81 81 65 vib@kroon\_oil.nl

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	

### **SECTION 2: Hazards identification**

#### 2.1. 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 exposure, Category 3, Narcosis H336
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms (CLP)





¥2

GHS02

GHS07

GHS09

Signal word (CLP) : Danger

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

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Precautionary statements (CLP) : 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.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

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

P273 - Avoid release to the environment.

P301+P310+P331 - IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting.

#### 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, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	(CAS-No.) 92128-66-0 (EC-No.) 921-024-6 (REACH-no) 01-2119475514-35	>= 50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Carbon dioxide substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB)	(CAS-No.) 124-38-9 (EC-No.) 204-696-9	1 - 2,5	Press. Gas (Comp.), H280

Full text of H-statements: see section 16

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

## 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell. Get medical advice/attention if you feel

unwell. Call a physician immediately. IF exposed or concerned: Get medical

advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately. Call a poison center or a doctor if

you feel unwell.

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

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after ingestion : Risk of lung oedema.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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.

Explosion hazard : Pressurised container: May burst if heated.

Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other

toxic gases.

## 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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### SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing

dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product.

: Dispose of materials or solid residues at an authorized site. Other information

#### 6.4. Reference to other sections

For further information refer to section 13.

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

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures

: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Storage temperature : 5 - 40 °C

### 7.3. Specific end use(s)

No additional information available

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

# 8.1. Control parameters

Carbon dioxide (124-38-9)		
EU	Local name	Carbon dioxide
EU	IOELV TWA (mg/m³)	9000 mg/m³
EU	IOELV TWA (ppm)	5000 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Germany	TRGS 910 Acceptable concentration notes	
United Kingdom	Local name	Carbon dioxide
United Kingdom	WEL TWA (mg/m³)	9150 mg/m³
United Kingdom	WEL TWA (ppm)	5000 ppm
United Kingdom	WEL STEL (mg/m³)	27400 mg/m³
United Kingdom	WEL STEL (ppm)	15000 ppm
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

## 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand	protectio	n:
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Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR), Neoprene rubber (HNBR)	5 (> 240 minutes), 6 (> 480 minutes)	>=0,35		EN ISO 374

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Eye protection:						
Safety glasses						
Туре	Use	Characteristics	Standard			
Safety glasses	Droplet	clear	EN 166			
Chin and hady protection.	Older and back and setting					

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):





#### **Environmental exposure controls:**

Avoid release to the environment.

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

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

Physical state : Liquid
Appearance : Aerosols.

Colour : colourless to yellow. Odour : characteristic. Odour threshold : No data available рΗ : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : < -20 °C Boiling point : 88 - 106 °C Flash point : -9 °C Auto-ignition temperature · > 200 °C

Decomposition temperature : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

Vapour pressure : 246 hPa at 20 °C
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 0,699 g/cm³ at 20 °C

Solubility : Water: Insoluble / Slightly miscible

Log Pow: No data availableViscosity, kinematic:  $< 20,5 \text{ mm}^2/\text{s}$ Viscosity, dynamic: 0,38 mPa·s at 20 °C

Explosive properties : Pressurised container: May burst if heated.

Oxidising properties : No data available Explosive limits : No data available

9.2. Other information

VOC content : 97,6 %

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

## 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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#### 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

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

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0)		
LD50 oral rat	5840 mg/kg	
LD50 dermal rat	2920 mg/kg	
LC50 inhalation rat (mg/l)	25 mg/l/4h	

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

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

Brake Cleaner CO2 AE	
Vaporizer	Aerosol
Viscosity, kinematic	< 20,5 mm²/s

## **SECTION 12: Ecological information**

## 12.1. Toxicity

: Toxic to aquatic life with long lasting effects. Before neutralisation, the product may Ecology - general

represent a danger to aquatic organisms.

: Not classified Acute aquatic toxicity

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

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0)				
LC50 fish 1 11,4 mg/l (Oncorhynchus mykiss, 96h) [OCDE 203]				
LC50 fish 2	2,04 mg/l (Oncorhynchus mykiss, 96h)			
EC50 Daphnia 1 3 mg/l (Daphnia magna, 48h) [OCDE 202]				
EC50 Daphnia 2 1 mg/l (Daphnia magna, 48h) [OCDE 211]				
ErC50 (algae) 10 mg/l (Pseudokirchnerella subcapitata, 72h) [OCDE 201]				
ErC50 (other aquatic plants)	3 mg/l (Algae, Pseudokirchnerella subcapitata, 72h)			

#### 12.2. Persistence and degradability

	Hydrocarhone	. C6-C7. n-alkanes	ienalkanoe	cyclics	<5% n-hovano	(92128-66-0)
ı	invuiocarbons.	. CD-C/. II-alkalies	s. isvaikanes.	. CVCIICS.	. Som H-Hexall	2 132 120-00-UI

Persistence and degradability Readily biodegradable, according to appropriate OECD test.

#### 12.3. Bioaccumulative potential

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (92128-66-0)			
Bioconcentration factor (BCF REACH)	>= 500		
Log Kow	>= 4 Octanol/water coefficient		

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

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#### **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## **SECTION 14: Transport information**

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

ADR IMDG IATA		IATA	ADN	RID
14.1. UN number				
UN 1950	UN 1950			
14.2. UN proper shippin				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Transport document descr	iption			
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS (- 9°C c.c.)	UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 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	2.1
		<b>₩</b> 2	<b>1 1 1 1 1 1 1 1 1 1</b>	<b>№ ¥</b> 2
14.4. Packing group				
Not applicable	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	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): 1IExcepted quantities (ADR): E0Packing instructions (ADR): P207

Special packing provisions (ADR) : PP87, RR6, L2

Mixed packing provisions (ADR) : MP9

Transport category (ADR) : 2

Special provisions for carriage - Packages (ADR) : V14

Special provisions for carriage - Loading, : CV9, CV12

unloading and handling (ADR)

Special provisions for carriage - Operation (ADR) : S2
Tunnel restriction code (ADR) : D

Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959

Packing instructions (IMDG) : P207, LP200
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

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Flash point (IMDG) : -9°C c.c.

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

Inland waterway transport

Classification code (ADN) : 5F

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

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01, VE04

Number of blue cones/lights (ADN) : 1

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, LP200 Special packing provisions (RID) : PP87, RR6, L2

Mixed packing provisions (RID) : MP9

Transport category (RID) : 2

Special provisions for carriage – Packages (RID) : W14

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

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

VOC content : 97,6 %

Detergent Regulation : Labelling of contents (648/2004/EC):		
Component	%	
aliphatic hydrocarbons	>=30%	

Directive 2012/18/EU (SEVESO III)

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Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P3b FLAMMABLE AEROSOLS 'Flammable' aerosols Category 1 or 2, not containing flammable gases Category 1 or 2 nor flammable liquids category 1	5000	50000
E2 Hazardous to the Aquatic Environment in Category Chronic 2	200	500

## 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16:	Other information	on			
Indication of changes:					
Section	Changed	item	Change	Comments	
	Revision d	ate	Modified		
	Supersede	s	Modified		
4.1	First-aid m	easures after ingestion	Modified		
4.1	First-aid m	easures general	Modified		
5.2		decomposition case of fire	Modified		
9.1	Density		Modified		
9.1	Viscosity, I	kinematic	Added		
12.1	Ecology - (	general	Modified		
Abbreviations ar	nd acronyms:				
ADN	ADN		European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR		European Agreement concerning the International Carriage of Dangerous Goods by Road			
ATE		Acute Toxicity Estimate			
BCF		Bioconcentration factor			
CLP		Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008			
DMEL		Derived Minimal Effect level			
DNEL		Derived-No Effect Level			
EC50		Median effective concentration			
IARC		International Agency for Research on Cancer			
IATA		International Air Transport Association			
IMDG		International Maritime Dangerous Goods			
LD50		Median lethal dose			
LC50 Median lethal con		Median lethal concentr	ntration		
LOAEL		Lowest Observed Adve	erse Effect Level		
NOAEC		No-Observed Adverse	Effect Concentration		
NOAEL	NOAEL No-Observed Adverse E		Effect Level		
NOEC No-Observed Effect Cor					
		omic Co-operation and Development			
PBT Persistent Bioaccumula					
PNEC		Predicted No-Effect Co			
		-	egistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
RID		Regulations concerning the International Carriage of Dangerous Goods by Rail			
STP		Sewage treatment plant			

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TLM	Median Tolerance Limit	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	

Full text of H- and EUH-statements:				
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2			
Asp. Tox. 1	Aspiration hazard, Category 1			
Flam. Liq. 2	Flammable liquids, Category 2			
Press. Gas (Comp.)	Gases under pressure : Compressed gas			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis			
H222	Extremely flammable aerosol.			
H225	Highly flammable liquid and vapour.			
H229	Pressurised container: May burst if heated.			
H280	Contains gas under pressure; may explode if heated.			
H304	May be fatal if swallowed and enters airways.			
H315	Causes skin irritation.			
H336	May cause drowsiness or dizziness.			
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