

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## JMC Brake cleaner 20l A2 (554 00 27)

Print date: 03.07.2019

Product code: 1100370

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

#### 1.1. Product identifier

JMC Brake cleaner 20l A2 (554 00 27)

##### Further trade names

5540027

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

##### Use of the substance/mixture

Reiniger

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

Company name:	Johannes J. Matthies GmbH & Co. KG	
Street:	Hammerbrookstrasse 97	
Place:	D-20097 Hamburg	
Telephone:	+49 (0) 40 237210	Telefax: +49 (0) 4023721 390
e-mail:	info@matthies.de	
Internet:	www.matthies.de	

**1.4. Emergency telephone number:** 111 NHS (National Health Service)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Indications of danger: Xn - Harmful  
 R phrases:  
 Flammable.  
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 Harmful: may cause lung damage if swallowed.  
 Repeated exposure may cause skin dryness or cracking.  
 Vapours may cause drowsiness and dizziness.

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

Hazard categories:  
 Flammable liquid: Flam. Liq. 3  
 Aspiration hazard: Asp. Tox. 1  
 Specific target organ toxicity - single exposure: STOT SE 3  
 Hazard Statements:  
 Flammable liquid and vapour.  
 May be fatal if swallowed and enters airways.  
 May cause drowsiness or dizziness.

#### 2.2. Label elements

##### Hazard components for labelling

Hydrocarbons, C9 - C11, n-alkanes, iso-alkanes, cyclics, < 2 % aromates

Signal word: Danger

Pictograms: GHS02-GHS07-GHS08



##### Hazard statements

H226

Flammable liquid and vapour.

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H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.

### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P243 Take action to prevent static discharges.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P501 Dispose of contents/container according to the official regulations.

### Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	GHS Classification	
REACH No		
919-857-5	Hydrocarbons, C9 - C11, n-alkanes, iso-alkanes, cyclics, < 2 % aromates	50 - <= 100 %
64742-48-9	Xn - Harmful R10-65-66-67	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1; H226 H336 H304 EUH066	
01-2119463258-33		

Full text of R, H and EUH phrases: see section 16.

#### Labelling for contents according to Regulation (EC) No 648/2004

>= 30 % aliphatic hydrocarbons.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before

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reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

### After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache, nausea, dizziness, fatigue, skin irritation

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder.

#### Unsuitable extinguishing media

High power water jet.

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

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

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Wear personal protection equipment (refer to section 8).

### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

### Further information on handling

Avoid contact with skin and eyes.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Observe legal regulations and provisions.

#### Hints on joint storage

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

#### Further information on storage conditions

Store in a cool dry place. Observe legal regulations and provisions.

### 7.3. Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Additional advice on limit values

- a no restriction
- b End of exposure or end of shift
- c at long term exposure: after several previous shifts
- d before next shift

blood (B)  
Urine (U)

### 8.2. Exposure controls

#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Protective and hygiene measures

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

#### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.  
DIN EN 166

#### Hand protection

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min

Thickness of the glove material 0,45 mm

DIN EN 374

#### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

#### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

When exceeding the relevant workplace exposure limits, note the following:

Suitable respiratory protective equipment: Combination filter device (DIN EN 141)..

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Filtering device with filter or ventilator filtering device of type: A  
Observe the wear time limits as specified by the manufacturer.  
Observe legal regulations and provisions.

#### Environmental exposure controls

Observe legal regulations and provisions.

### SECTION 9: Physical and chemical properties

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

Physical state: liquid  
Colour: colourless  
Odour: solvent like

	<b>Test method</b>
pH-Value (at 20 °C):	not determined DIN 19268

#### Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	110 °C
Sublimation point:	No information available.
Softening point:	No information available.
:	No information available.

Flash point:	24 °C ISO 3679
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#### Flammability

Solid:	not applicable
Gas:	not applicable
Lower explosion limits:	0,6 vol. %
Upper explosion limits:	7 vol. %
Ignition temperature:	No information available.

#### Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined

#### Oxidizing properties

Not oxidising.

Vapour pressure:	not determined
Density (at 20 °C):	0,77 g/cm <sup>3</sup> DIN 51757

Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.
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#### Solubility in other solvents

not determined

Partition coefficient:	not determined
Viscosity / dynamic:	No information available. DIN 53019-1
Viscosity / kinematic: (at 40 °C)	No information available. DIN EN ISO 3104
Flow time: (at 20 °C)	No information available. DIN EN ISO 2431
Vapour density:	not determined

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Evaporation rate: not determined

Solvent separation test: No information available.

Solvent content: No information available.

### 9.2. Other information

Solid content: not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharges.

### 10.5. Incompatible materials

Oxidizing agents. Pyrophoric or self-heating substances.

### 10.6. Hazardous decomposition products

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

### Further information

Do not mix with other chemicals.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### **Toxicokinetics, metabolism and distribution**

No information available.

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

#### **Acute toxicity**

CAS No	Chemical name				
	Exposure route	Method	Dose	Species	Source
64742-48-9	Hydrocarbons, C9 - C11, n-alkanes, iso-alkanes, cyclics, < 2 % aromates				
	oral	LD50 mg/kg	> 5000	Rat	Study report (1988)
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1989)
	inhalation (4 h) vapour	LC50	4951 mg/l	Rat	

#### **Irritation and corrosivity**

Based on available data, the classification criteria are not met.

#### **Sensitising effects**

Based on available data, the classification criteria are not met.

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### STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C9 - C 11, n-alkanes, iso-alkanes, cyclics, < 2 % aromates)

### Severe effects after repeated or prolonged exposure

Repeated exposure may cause skin dryness or cracking.

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

No indications of human carcinogenicity exist.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

### Aspiration hazard

May be fatal if swallowed and enters airways. (Hydrocarbons, C9 - C 11, n-alkanes, iso-alkanes, cyclics, < 2 % aromates)

### Specific effects in experiment on an animal

No information available.

### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## SECTION 12: Ecological information

### 12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
64742-48-9	Hydrocarbons, C9 - C11, n-alkanes, iso-alkanes, cyclics, < 2 % aromates					
	Acute fish toxicity	LC50	> 100 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50	> 1000 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier
	Acute crustacea toxicity	EC50	> 100 mg/l	48 h	Daphnia magna	

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64742-48-9	Hydrocarbons, C9 - C11, n-alkanes, iso-alkanes, cyclics, < 2 % aromates	5

#### BCF

CAS No	Chemical name	BCF	Species	Source
64742-48-9	Hydrocarbons, C9 - C11, n-alkanes, iso-alkanes, cyclics, < 2 % aromates	144,3	calculated	Other company data (

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No information available.

### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**Waste disposal number of waste from residues/unused products**

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors; hazardous waste

**Waste disposal number of used product**

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors; hazardous waste

**Waste disposal number of contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Water (with cleaning agent). Completely emptied packages can be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number:</b>	UN 3295
<b>14.2. UN proper shipping name:</b>	HYDROCARBONS, LIQUID, N.O.S.
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3
Classification code:	F1
Limited quantity:	5 L
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

**Other applicable information (land transport)**

Limited quantity: E1

**Inland waterways transport (ADN)**

<b>14.1. UN number:</b>	UN 3295
<b>14.2. UN proper shipping name:</b>	HYDROCARBONS, LIQUID, N.O.S.
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3
Classification code:	F1
Limited quantity:	5 L

**Other applicable information (inland waterways transport)**

Limited quantity: E1

**Marine transport (IMDG)**

<b>14.1. UN number:</b>	UN 3295
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**14.2. UN proper shipping name:** HYDROCARBONS, LIQUID, N.O.S.

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** III

Hazard label: 3

Marine pollutant: no

Special Provisions: 223

Limited quantity: 5 L

EmS: F-E, S-D

**Other applicable information (marine transport)**

Limited quantity: E1

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 3295

**14.2. UN proper shipping name:** HYDROCARBONS, LIQUID, N.O.S.

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** III

Hazard label: 3

Special Provisions: A3 A224

Limited quantity Passenger: 10 L

IATA-packing instructions - Passenger: 355

IATA-max. quantity - Passenger: 60 L

IATA-packing instructions - Cargo: 366

IATA-max. quantity - Cargo: 220 L

**Other applicable information (air transport)**

Limited quantity: E1

Passenger-LQ: Y344

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

Warning: Combustible liquids.

**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**

**EU regulatory information**

1999/13/EC (VOC): No information available.

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 1 - slightly water contaminating

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

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**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 2,4,7,8,9,10,11,13,15,16.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 IATA: International Air Transport Association  
 IMDG: International Maritime Code for Dangerous Goods  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level  
 WEL (UK): Workplace Exposure Limits  
 TWA (EC): Time-Weighted Average  
 ATE: Acute Toxicity Estimate  
 STEL (EC) Short Term Exposure Limit  
 LC50: Lethal Concentration  
 EC50: half maximal Effective Concentration  
 ErC50: means EC50 in terms of reduction of growth rate

**Relevant R phrases (number and full text)**

10	Flammable.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

**Relevant H and EUH statements (number and full text)**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

**Further Information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]: Calculation method.  
 The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*