

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**JMC Brake Service paste 200 ml (554 00 23)**

Print date: 03.07.2019

Product code: 1100366

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

JMC Brake Service paste 200 ml (554 00 23)

**Further trade names**

5540023

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Schmierem

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

Hazard categories:

Aerosol: Aerosol 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Pressurised container: May burst if heated.

Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

Signal word: Warning

Pictograms: GHS09

**Hazard statements**

H229 Pressurised container: May burst if heated.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P102 Keep out of reach of children.  
 P101 If medical advice is needed, have product container or label at hand.  
 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.  
 P260 Do not breathe vapours.  
 P273 Avoid release to the environment.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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P501 Dispose of contents/container according to the official regulations.

### Special labelling of certain mixtures

EUH208 Contains 4-Nonylphenoxyacetic acid. May produce an allergic reaction.  
12,2 % by mass of the contents are flammable.

### 2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.  
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		
263-189-0	N-Tallowalkyl-1,3-propanediamine	0.1 - < 1 %
61791-55-7	T - Toxic, C - Corrosive, Xn - Harmful, N - Dangerous for the environment R22-34-48/25-50	
	Acute Tox. 4, Skin Corr. 1B, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1 (M-Factor = 10); H302 H314 H372 H400 H410	
01-2119487014-41		
221-486-2	4-Nonylphenoxyacetic acid	0.1 - < 1 %
3115-49-9	C - Corrosive, Xn - Harmful, N - Dangerous for the environment R22-34-43-50-53	
	Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H317 H400 H410	

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

## 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 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.

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### 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.

#### **Additional information**

Danger of bursting container.

### 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.

Wear personal protection equipment (refer to section 8).

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

##### **Advice on protection against fire and explosion**

Heating causes rise in pressure with risk of bursting.

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

##### **Requirements for storage rooms and vessels**

Keep container tightly closed. Observe legal regulations and provisions.

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**Hints on joint storage**

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

**Further information on storage conditions**

Protect from frost. Protect against direct sunlight. 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****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7429-90-5	Aluminium metal, respirable dust	-	4		TWA (8 h)	WEL
1332-58-7	Kaolin respirable dust	-	2		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL

**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)..

Filtering device with filter or ventilator filtering device of type: A

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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: Aerosol  
 Colour:  
 Odour: odourless

#### Test method

pH-Value (at 20 °C): not determined DIN 19268

#### Changes in the physical state

Melting point: not determined  
 Initial boiling point and boiling range: > 150 °C  
 Sublimation point: No information available.  
 Softening point: No information available.  
 Flash point: > 100 °C

#### Flammability

Solid: not determined  
 Gas: not applicable

Lower explosion limits: not determined  
 Upper explosion limits: not determined  
 Ignition temperature: No information available.

#### Auto-ignition temperature

Solid: not determined  
 Gas: not applicable

Decomposition temperature: not determined

#### Oxidizing properties

Not oxidising.

Vapour pressure: not determined

Density: 1,1 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.

#### Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: No information available.

Viscosity / kinematic: No information available.

Flow time: No information available.

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: No information available.

Solvent content: No information available.

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**9.2. Other information**

Solid content: not determined

density: Data apply to technical substance.

pressure: - bar (20°C)

**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**

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. 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
61791-55-7	N-Tallowalkyl-1,3-propanediamine				
	oral	LD50 mg/kg	>300 - 2000	Rat	
3115-49-9	4-Nonylphenoxyacetic acid				
	oral	LD50	1674 mg/kg	Rat	

**Irritation and corrosivity**

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

**Sensitising effects**

Contains 4-Nonylphenoxyacetic acid. May produce an allergic reaction.

**STOT-single exposure**

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

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### Severe effects after repeated or prolonged exposure

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

### 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

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

### 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

Toxic 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
61791-55-7	N-Tallowalkyl-1,3-propanediamine					
	Acute fish toxicity	LC50 mg/l	>0,02 - 0,1	96 h	Brachydanio rerio (zebra-fish)	
	Acute algae toxicity	ErC50 mg/l	>0,02 - 0,1	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50 mg/l	>0,02 - 0,1	48 h	Daphnia magna (Big water flea)	
3115-49-9	4-Nonylphenoxyacetic acid					
	Acute fish toxicity	LC50	9 mg/l	96 h	Brachydanio rerio (zebra-fish)	
	Acute crustacea toxicity	EC50	0,88 mg/l	48 h	Daphnia magna	

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
3115-49-9	4-Nonylphenoxyacetic acid				
	OECD 301B; ISO 9439; 92/69/EWG, C.4-C	42 - 46 %	28		
	Moderately/partially biodegradable.				

### 12.3. Bioaccumulative potential

The product has not been tested.

### 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

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

###### Waste disposal number of used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

###### Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

#### SECTION 14: Transport information

##### Land transport (ADR/RID)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
 Hazard label: 2.2  
 Classification code: 5A  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L  
 Transport category: 3  
 Tunnel restriction code: E

##### Inland waterways transport (ADN)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
 Hazard label: 2.2  
 Classification code: 5A  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L

##### Marine transport (IMDG)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS (N-Tallowalkyl-1,3-propanediamine)  
**14.3. Transport hazard class(es):** 2.2  
**14.4. Packing group:** -  
 Hazard label: 2.2  
 Marine pollutant: yes  
 Special Provisions: 63, 190, 277, 327, 344, 959



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Limited quantity: 1000 mL  
 EmS: F-D, S-U

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

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.2  
**14.4. Packing group:** -  
 Hazard label: 2.2  
 Special Provisions: A98 A145 A167 A802  
 Limited quantity Passenger: 30 kg G  
 IATA-packing instructions - Passenger: 203  
 IATA-max. quantity - Passenger: 75 kg  
 IATA-packing instructions - Cargo: 203  
 IATA-max. quantity - Cargo: 150 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes  
 Danger releasing substance: N-Tallowalkyl-1,3-propanediamine

**14.6. Special precautions for user**

No information available.

**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)  
 Aerosol directive (75/324/EEC)

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).  
 Water contaminating class (D): 2 - clearly water contaminating  
 Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

**Additional information**

94/69/EC (21st ATP). The benzene content of the product is less than 0.1%. It applies the annotation P.  
 Classification and labeling as carcinogenic is not necessary.

**15.2. Chemical safety assessment**

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

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

This data sheet contains changes from the previous version in section(s): 1,2,3,14.

**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

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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)**

- 22 Harmful if swallowed.
- 34 Causes burns.
- 43 May cause sensitisation by skin contact.
- 48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.
- 50 Very toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.

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

- H229 Pressurised container: May burst if heated.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H372 Causes 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.
- EUH208 Contains 4-Nonylphenoxyacetic acid. May produce an allergic reaction.

**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.)*