

A 002 986 04 71 Metal dust remover

Print date 27.02.2020 Revision date 13.02.2020

Version 18

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

Classification procedure

1.1 Product identifier

Trade name/designation Metal dust remover **Partno** A 002 986 04 71

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

Use

cleaner

1.3 Details of the supplier of the safety data sheet

Supplier

Mercedes-Benz USA, LLC. One Mercedes-Benz Dr. Sandy Springs, GA 30328-4312 +1 770 705 0600

Manufacturer

Mercedes-Benz AG

70546 Stuttgart Telephone +49 (0)711 17-0

1.4 Emergency telephone number

+49 (0)711 17-0 gms.daimler.com

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

[CLP]

Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318

hazard statements for physical hazards

H290 May be corrosive to metals.

hazard statements for health hazards

H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.

2.2 Label elements

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

product identifiers

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Hazard components for labelling

oxalic acid, ortho-phosphoric acid

Hazard pictograms



Signal word

Danger

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P102 Keep out of reach of children.

P234 Keep only in original container.

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P390 Absorb spillage to prevent material damage.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with regional regulations.

Other labelling

Labelling for contents according to regulation (EC) No. 648/2004:

< 5% non-ionic surfactants

2.3 Other hazards

Results of PBT and vPvB assessment

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

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Description

Aqueous solution.

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]
144-62-7	205-634-3	oxalic acid	5 < 10 %	Acute Tox. 4 H302 Acute Tox. 4 H312 Eye Dam. 1 H318
7664-38-2	231-633-2	ortho-phosphoric acid	5 < 10 %	Skin Corr. 1B H314 Met. Corr. 1 H290 Acute Tox. 4 H302
68920-66-1	500-236-9	alcohols, C16-18 and C18-unsatd., ethoxylated	1 < 2.5 %	Skin Irrit. 2 H315



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REACH No.	Substance name
01-2119534576-33	oxalic acid
01-2119485924-24	ortho-phosphoric acid

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

Following inhalation

Provide fresh air.

In case of inhaling spray mist, consult a physician.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

Medical treatment necessary.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Do NOT induce vomiting.

Call a physician immediately.

Rinse mouth immediately and drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

All quenching agents are suitable.

Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire formation of dangerous gases possible.

5.3 Advice for firefighters

Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus.

Wear full chemical protective clothing.

Additional information

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid skin and eye contact.

For emergency responders

Provide adequate ventilation. Personal protection equipment Keep away unprotected persons

Use breathing apparatus if exposed to vapours/dust/aerosol.

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).

Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust). After taking up the material dispose according to regulation.

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

Protective measures

Always close containers tightly after the removal of product.

Do not inhale aerosols

Provide for appropriate ventilation/aspiration at the work station

Avoid:

generation/formation of aerosols

Eye contact

Skin contact

Advices on general occupational hygiene

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

Remove contaminated, saturated clothing immediately.

Keep away from food and drink.

Use protective skin cream before handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Suitable floor material:

Acid-resistant

Keep/Store only in original container.

Unsuitable container/equipment material:

Light metal

Suitable container/equipment material:

Polyethylene (PE)

Storage class

LGK8B Non-combustible corrosive substances

Materials to avoid

Do not store together with:

Oxidising agent



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Further information on storage conditions

Store only at temperature of 15°C minimum (=59°F). Store only at temperature of 30°C maximum (=86°F).

Protect against:

Frost Heat

UV-radiation/sunlight

7.3 Specific end use(s)

Recommendation

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	EC No.	Substance name	occupational exposure limit value
7664-38-2	231-633-2	Orthophosphoric acid	1 [mg/m3] Short-term(mg/m3) 2 2000/39/EC
144-62-7	205-634-3	Oxalic acid	1 [mg/m3] 2006/15/EC
7664-38-2		Orthophosphoric acid	1 [mg/m3] Short-term(mg/m3) 2 (1) (IE)
144-62-7		Oxalic acid	1 [mg/m3] (IE)
7664-38-2		Orthophosphoric acid	1 [mg/m3] Short-term(mg/m3) 2 (UK)
144-62-7		Oxalic acid	1 [mg/m3] Short-term(mg/m3) 2 (UK)

DNEL worker

CAS No.	Substance name	[ONEL valu	ie	DNEL type		Remark
7664-38-2	ortho-phosphoric	acid	10.7 mg/	m³	long-term inhala (systemic)	ntive	
7664-38-2	ortho-phosphoric	acid 2	2 mg/m ³		acute inhalative	(local)	
144-62-7	oxalic acid	2	2.29 mg/	kg bw/day	acute dermal, sl (systemic)	nort-term	
144-62-7	oxalic acid	4	4.03 mg/	kg bw/day	acute inhalative	(systemic)	
PNEC							
CAS No.	Substance name	PNEC V	alue	PNEC typ	e	Remark	
144-62-7	oxalic acid	0.1622	mg/L	aquatic,	freshwater		
144-62-7	oxalic acid	0.01622	2 mg/L	aquatic,	marine water		
144-62-7	oxalic acid	1500 m	ıg/L	sewage (STP)	treatment plant		

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Sufficient ventilation and exhaustion.



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Personal protection equipment

Eye/face protection

tightly fitting goggles DIN EN 166

Hand protection

Glove material specification [make/type, thickness, permeation time/wearing time, wetting resistance]: butyl rubber, material thickness 0.5 mm, permeation time min. 8 h

Glove material specification [make/type, thickness, permeation time/wearing time, wetting resistance]: fluorine rubber, material thickness 0.4 mm, permeation time min. 8 h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.

Body protection:

Required properties:

acid-resistant

Respiratory protection

Respiratory protection necessary at:

insufficient ventilation

aerosol or mist formation

Suitable respiratory protection apparatus:

Self-contained respirator (breathing apparatus) (DIN EN 133)

Filtering device (full mask or mouthpiece) with filter:

В

P

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

colourless

clear

Odour

odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			not determined
рН	in delivery state 1 (20°C) Concentration 1000 g/L		
Melting point/freezing point			not determined
Initial boiling point and boiling range			not determined
Flash point			not applicable
Evaporation rate			not determined
flammability	solid		not applicable
flammability	gaseous		not applicable
Upper/lower flammability or explosive limits	Upper explosion limit		not applicable



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	Value	Method	Source, Remark
Upper/lower flammability or explosive limits	Lower explosion limit		not applicable
Vapour pressure			not determined
Vapour density			not determined
Density	1.076 g/cm ³ (15°C)		
Solubility(ies)	Water solubility (g/L)		completely miscible
Partition coefficient: n-octanol/water			not applicable
Auto-ignition temperature			not determined
Decomposition temperature			not determined
Viscosity	kinematic		not determined
Viscosity	dynamic		not determined
Explosive properties:			The product is not explosive
Oxidising properties	not determined		
Other information			
Further safety characteristics			
	Value	Method	Source, Remark
Water content (%)	83 %		

Other safety information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions with proper storage and handling.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

Reactions with various metals. Reactions with strong alkalies.

10.4 Conditions to avoid

High temperatures insolation frost

10.5 Incompatible materials

Light metals Oxidising agent, strong

10.6 Hazardous decomposition products

Phosphorus oxides (e.g. P2O5)

Additional information

No risk of production of decomposition products when appropriately handled and stored



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Animal data

	Effective dose	Method	Source, Remark
Acute oral toxicity	LD50: 375 mg/kg Ra	t	CAS No.144-62-7 oxalic acid
Acute dermal toxicity	LD50: 2740 mg/kg F	abbit	CAS No.7664-38-2 ortho- phosphoric acid
Acute inhalation toxicity	LC50: 850 mg/L Rat Exposure time 2 h		CAS No.7664-38-2 ortho- phosphoric acid

Assessment/classification

The classification criteria have not been met according to the available data.

Skin corrosion/irritation

Assessment/classification

Corrosive.

Eye damage/irritation

Assessment/classification

Corrosive.

Causes serious eye damage.

Sensitisation to the respiratory tract

Assessment/classification

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

Skin sensitisation

Assessment/classification

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

STOT-single exposure

STOT SE 1 and 2

Assessment/classification

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

STOT SE 3

Irritation to respiratory tract

Assessment/classification

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

Narcotic effects

Assessment/classification

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

STOT-repeated exposure

Assessment/classification

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

Aspiration hazard

Experimental data

	Value	Method	Source, Remark
Viscosity	kinematic		not determined
Viscosity	dynamic		not determined



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The classification criteria have not been met according to the available data.

Additional information

Risk of strong health injuries in case of long-term exposition.

Swallowing will cause severely chemical burns to the mouth and throat and may perforate the esophagus and stomach. Corrosive effect on skin and mucous membranes

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method	Source, Remark
Acute (short-term) fish toxicity	LC50: 3- 3.25 mg/L Lepomis macrochirus (Bluegill) Test durarion 96 h		CAS No.7664-38-2 ortho phosphoric acid
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EC50 > 100 mg/L Daphnia magna (Big water flea) Test durarion 48 h	OECD 202	CAS No.7664-38-2 ortho phosphoric acid
Chronic (long-term) toxicity to crustacea	not determined		
Acute (short-term) toxicity to aquatic algae and cyanobacteria	EC50 > 100 mg/L Desmodesmus subspicatus Test durarion 72 h	OECD 201	CAS No.7664-38-2 ortho phosphoric acid
Acute (short-term) toxicity to aquatic algae and cyanobacteria	NOEC 100 mg/L Desmodesmus subspicatus Test durarion 72 h	OECD 201	CAS No.7664-38-2 ortho phosphoric acid
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		
2 Persistence and degradability			
No data available			
Bioaccumulative potential			
	Value	Method	Source, Remark
Partition coefficient: n- octanol/water			not applicable

12.

	Value	Distribution	Transport type	Method	Remark
Log KOC					not applicable

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

Additional ecotoxicological information

Additional information

Do not allow product to reach ground water, water course or sewage system.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code packaging Waste name

150110 * packaging containing residues of or contaminated by hazardous substances

Appropriate disposal / Product

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Empty (emptied with remainders) container are contaminated and must be disposed of by experts or consigned to an authorised reconditioning. Waste code: 150110 (EAK)

Remark

Send to a hazardous waste incinerator facility under observation of official regulations.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
14.1 UN number	1805	1805	1805
14.2 UN proper shipping name	PHOSPHORIC ACID SOLUTION	PHOSPHORIC ACID SOLUTION	Phosphoric acid, solution
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	III	III	111
14.5 Environmental hazards	No	No	No

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

Land transport (ADR/RID)

UN number 1805

UN proper shipping name PHOSPHORIC ACID SOLUTION

Transport hazard class(es) 8
Hazard label(s) 8
Classification code: C1
Packing group III
Environmental hazards No
Limited quantity (LQ) 5 L
Special Provisions tunnel restriction code E

Remark

Transport as "limited quantity" according to chapter 3.4 ADR/RID

Sea transport (IMDG)

UN number 1805

UN proper shipping name PHOSPHORIC ACID SOLUTION

Transport hazard class(es) 8
Packing group III



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Environmental hazards No Limited quantity (LQ) 5 L Marine pollutant -

EMS F-A, S-B

Remark

EmS-No. F-A,S-B

Air transport (ICAO-TI / IATA-DGR)

UN number 1805

UN proper shipping name Phosphoric acid, solution

Transport hazard class(es) 8
Packing group III
Environmental hazards No

SECTION 15: Regulatory information

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

Water hazard class (WGK)

slightly hazardous to water (WGK 1)

according to the Ordinance on Facilities for Handling Substances that are Hazardous to Water (AwSV)

Restrictions of occupation

Observe national legislation regarding professional restrictions.

Observe employment restrictions for young people.

15.2 Chemical Safety Assessment

Substance safety analysis was not performed for this mixture.

SECTION 16: Other information

Indication of changes

Current safety data sheets are available at:

http://gms.aftersales.daimler.com

Abbreviations and acronyms

See overview table at www.euphrac.eu

Key literature references and sources for data

Safety data sheets of suppliers

Additional information

Adhere to existing national and local rules referring to chemicals.

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.

Relevant H- and EUH-phrases (Number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.