

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

STAPA REFLEXAL C VIII 31859/G Aluminium Paste

Version 2.0 Revision Date 02.12.2019 Print Date 29.11.2024

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

1.1 Product identifier

Trade name : STAPA REFLEXAL C VIII 31859/G Aluminium Paste

Material number : 005135G60

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

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH

Guentersthal 4 91235 Hartenstein

Telephone : +499152770 Telefax : +499152777008

E-mail address : msds.eckart@altana.com

Responsible/issuing person

1.4 Emergency telephone number

NCEC:

(contract no.: ECKART29003-NCEC)

- +44 1235 239671 (Middle East/Africa, call and response in your language)
- +1 215 207 0061 (Americas, call and response in your language)
- +65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification

GHS Classification

: Flammable solids, Category 1, H228 Eye irritation, Category 2A, H319

Specific target organ toxicity - single exposure, Category 3,

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Central nervous system, H336

GHS-Labelling

Symbol(s) :





Signal word : Danger

Hazard statements : H228: Flammable solid.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Precautionary statements : Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P240 Ground/bond container and receiving equipment.

P261 Avoid breathing vapours.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell. P337 + P313 If eye irritation persists: Get medical advice/

attention.

P370 + P378 In case of fire: Use for extinction: Dry sand.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed. **Disposal:**

P501 Dispose of contents/ container to an approved waste

disposal plant.

Hazardous components which must be listed on the label

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Identification CAS-No. propan-2-ol 67-63-0

SECTION 3: Composition/information on ingredients

Substance name : stapa rxal c VIII#31859/g

Substance No. :

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium powder (stabilised)	7429-90-5 231-072-3	Flam. Sol.;1;H228	60 - 100
propan-2-ol	67-63-0 200-661-7	Flam. Liq.;2;H225 Acute Tox.;5;H303 Acute Tox.;5;H313 Eye Irrit.;2A;H319 STOT SE;3;H336	30 - 60

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move the victim to fresh air.

Do not leave the victim unattended. Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

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In case of skin contact : Wash off immediately with soap and plenty of water.

> If on skin, rinse well with water. If on clothes, remove clothes.

: Immediately flush eye(s) with plenty of water. In case of eye contact

Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry sand, Special powder against metal fire

Unsuitable extinguishing

media

: Water, Foam, Carbon dioxide (CO2), ABC powder

5.2 Special hazards arising from the substance or mixture

This information is not available.

5.3 Advice for firefighters

for firefighters

Special protective equipment : Use personal protective equipment.

Wear self-contained breathing apparatus for firefighting if necessary.

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Further information : Standard procedure for chemical fires. Use extinguishing

measures that are appropriate to local circumstances and the

surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

Use personal protective equipment.
Use personal protective equipment.

Avoid dust formation.

Remove all sources of ignition.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Do not flush with water.

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Keep away from heat and sources of ignition. Avoid dust

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formation. Ensure adequate ventilation.

Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion

Earthing of containers and apparatuses is essential. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment.

Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures

: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Keep away from sources of ignition - No smoking.

No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions

: Protect from humidity and water. Do not allow to dry.

Advice on common storage

: Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

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Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	AGW (Inhalable	10 mg/m3	2014-04-02	DE TRGS 900
powder		fraction)			
(stabilised)					
Peak-limit: exc	ursion	2;(II)			
factor (categor	у)				
Further inform	ation		dangerous substan ounds at the work pl on).		
aluminium powder (stabilised)	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			
Further inform	ation	Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
propan-2-ol	67-63-0	AGW	200 ppm 500 mg/m3	2006-01-01	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			

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Further information	Senate commission for the review of compounds at the work
	place dangerous for the health (MAK-commission). When there is
	compliance with the OEL and biological tolerance values, there is
	no risk of harming the unborn child

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium powder (stabilised)	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (Respirable)	5 mg/m3	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (total dust)	15 mg/m3	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (total)	10 mg/m3	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	5 mg/m3	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
aluminium powder (stabilised)	7429-90-5	PEL (Total dust)	10 mg/m3	2014-11-26	
aluminium powder (stabilised)	7429-90-5	PEL (respirable dust fraction)	5 mg/m3	2014-11-26	
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	1 mg/m3	2008-01-01	
aluminium powder	7429-90-5	TWA	5 mg/m3	2005-09-01	

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(stabilised)					
aluminium	7429-90-5	TWA (Total)	15 mg/m3	1989-01-19	
powder					
(stabilised)					
aluminium	7429-90-5	TWA	5 mg/m3	1989-01-19	
powder		(Respirable			
(stabilised)		fraction)			
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01	
powder					
(stabilised)					
aluminium	7429-90-5	TWA (respirable	5 mg/m3	2011-07-01	
powder		fraction)			
(stabilised)					
aluminium	7429-90-5	TWA (Total	15 mg/m3	1989-01-19	
powder		dust)			
(stabilised)					
aluminium	7429-90-5	TWA (respirable	5 mg/m3	1989-01-19	
powder		dust fraction)			
(stabilised)					
aluminium	7429-90-5	TWA (welding	5 mg/m3	2013-10-08	
powder		fumes)			
(stabilised)					
aluminium	7429-90-5	TWA (pyro	5 mg/m3	2013-10-08	
powder		powders)			
(stabilised)					
aluminium	7429-90-5	TWA	1 mg/m3	2013-03-01	
powder		(Respirable fraction)			
(stabilised)		,			
aluminium	7429-90-5	TWA (Fumes)	5 mg/m3	1989-01-19	
powder					
(stabilised)					
aluminium	7429-90-5	PEL (Welding	5 mg/m3	2017-10-02	
powder		fumes)			
(stabilised)					
aluminium	7429-90-5	PEL (Pyro	5 mg/m3	2017-10-02	
powder		powders)			
(stabilised)					
propan-2-ol	67-63-0	TWA	200 ppm	2013-03-01	

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propan-2-ol	67-63-0	STEL	400 ppm	2013-03-01
propan-2-ol	67-63-0	TWA	400 ppm 980 mg/m3	2013-10-08
propan-2-ol	67-63-0	ST	500 ppm 1 225 mg/m3	2013-10-08
propan-2-ol	67-63-0	TWA	400 ppm 980 mg/m3	1997-08-04
propan-2-ol	67-63-0	TWA	400 ppm 980 mg/m3	1989-01-19
propan-2-ol	67-63-0	STEL	500 ppm 1 225 mg/m3	1989-01-19
propan-2-ol	67-63-0	PEL	400 ppm 980 mg/m3	2014-11-26
propan-2-ol	67-63-0	STEL	500 ppm 1 225 mg/m3	2014-11-26
stearic acid	57-11-4	TWA	10 mg/m3	2016-03-01

8.2 Exposure controls

Personal protective equipment

Eye protection : Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Material : Solvent-resistant gloves (butyl-rubber)

Remarks : Take note of the information given by the producer concerning

permeability and break through times, and of special

workplace conditions (mechanical strain, duration of contact).

The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local

conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Recommended preventive skin protection

Skin should be washed after contact.

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The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Skin and body protection : Long sleeved clothing

Safety shoes

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Respiratory protection : Use suitable breathing protection if workplace concentration

requires.

: In the case of dust or aerosol formation use respirator with an

approved filter.

Environmental exposure controls

General advice :

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Water : The product should not be allowed to enter drains, water

courses or the soil.

:

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Pasty solid

Colour : silver

Odour : solvent-like

pH : No data available
Freezing point : No data available

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Boiling point/boiling range : 82 °C

Flash point : No data available
Bulk density : No data available
Flammability (solid, gas) : No data available
Auto-flammability : not auto-flammable
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available

Density : 2,0 g/cm3

Solubility(ies)

Water solubility : insoluble

Miscibility with water : partly miscible
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Ignition temperature : No data available
Thermal decomposition : No data available
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available
Flow time : No data available

Explosive properties : Not explosive Vapours may form explosive

mixture with air.

9.2 Other information

No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with alkalis, acids, halogenes and oxidizing agents.

Contact with acids and alkalis may release hydrogen. Mixture reacts slowly with water resulting in evolution of

hydrogen.

Vapours may form explosive mixture with air.

Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : Do not allow to dry.

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Acids

Bases

Oxidizing agents

Highly halogenated compounds

10.6 Hazardous decomposition products

Other information : No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity



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Components:

propan-2-ol:

Acute oral toxicity : LD50 Rat: > 2 000 mg/kg

Acute dermal toxicity : LD50 Rabbit: > 2 000 mg/kg

Skin corrosion/irritation

Product

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Product

Eye irritation

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

Reprod.Tox./Development/Teratogenicity

No data available

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STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Product:

Additional ecological

information

: No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company. In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations.

SECTION 14: Transport information

14.1 UN number

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ADR : 1325 TDG : 1325 CFR : 1325 IMDG : 1325 IATA : 1325

14.2 Proper shipping name

ADR : FLAMMABLE SOLID, ORGANIC, N.O.S.

(Aluminium pigment paste)

TDG : FLAMMABLE SOLID, ORGANIC, N.O.S.

(Aluminium pigment paste)

CFR : FLAMMABLE SOLIDS, ORGANIC, N.O.S.

(Aluminum pigment paste)

IMDG : FLAMMABLE SOLID, ORGANIC, N.O.S.

(,Aluminium pigment paste)

IATA : FLAMMABLE SOLID, ORGANIC, N.O.S.

(Aluminium pigment paste)

14.3 Transport hazard class

ADR : 4.1
TDG : 4.1
CFR : 4.1
IMDG : 4.1

14.4 Packing group

ADR

Packaging group : II
Classification Code : F1
Hazard Identification Number : 40

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Labels : 4.1 Tunnel restriction code : (E)

TDG

Packaging group : II Labels : 4.1

CFR

Packaging group : II Labels : 4.1

IMDG

Packaging group : II Labels : 4.1

EmS Number : F-G, S-G

IATA

Packing instruction (cargo : 448

aircraft)

Packing instruction : 445

(passenger aircraft)

Packing instruction (LQ) : Y441
Packaging group : II
Labels : 4.1

14.5 Environmental hazards

IMDG :

14.6 Special precautions for user

IMDG Code- segregation group:

IMDG Code segregation group 15 - Powdered metals

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

No data available

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High : Not applicable Concern for Authorisation (Article 59).

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapour.

H228 : Flammable solid.

H303 : May be harmful if swallowed.

H313 : May be harmful in contact with skin. H319 : Causes serious eye irritation.

H336 : May cause drowsiness or dizziness.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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