



Reference / Product name:
Super Abrasives (Cat. #11)
Version/Revision (date): 12/11/2024
Printing date: 12/11/2024

page 1 of 8

Safety Data Sheet for Coated Abrasives

1. Identification of the product and of the company/undertaking

1.1. Product identifier

Coated Abrasives (Cat. #11)

1.2. Use of the product

Abrasives for industrial and professional application.

1.3. Details of the supplier of the voluntary product information

Company: VSM Abrasives Corporation
Address: 1012 E. Wabash O'Fallon,
MO 63366

Phone: 800-737-0176 Fax: 636-272-7434

E-Mail: msds@vsmabrasives.com

1.4. Emergency telephone number

Tel.: 1-800-262-8200

2. Hazards identification

2.1. Classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

2.2. Label elements

Not applicable.

2.3. Other hazards

A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground. Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated. This dust may present a fire or dust explosion hazard and may present a serious health hazard.

3. Composition/information on ingredients

| Substance | EG- N° | CAS-N° | Conc. | Classification acc. to Regulation (EC) N° 1272/2008 (CLP) | | |
|--|-----------|------------|--------|---|------------------------------|------------------------|
| | | | | Hazard classes/ hazard categories | Hazard statements | SCL, M- Factor, ATE |
| Trimethylol- propane- triacylate | 239-701-3 | 15625-89-5 | <0,1% | Skin Irrit.2 Eye Irrit. 2 Sin Sens. 1 Carc. 2 | H315 H317 H319 H351 | - |
| and/or Potassium tetrafluoroborate | 237-928-2 | 14075-53-7 | 1-10 % | - | - | - |
| and/or Aluminium oxide Mineral | 215-691-6 | 1344-28-1 | 0-40 % | - | - | - |

(for full text of H-phrases see section 16)

4. First aid measures

See also section 8 and 16

4.1. Description of first aid measures

Inhalation: Not possible, due to the form of the product.

Eye contact: Not possible, due to the form of the product.

Skin contact: No harmful effects known.

Ingestion: Not likely, due to the form of the product; if necessary, contact physician.

Note to physician: Not available.

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

Not known.

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

Not relevant. Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: water, foam, sand, powder or CO₂ as appropriate for surrounding materials.

5.2. Special hazards arising from the product

Toxic fumes may occur. Use respiratory protective equipment.

5.3. Advice for fire fighters

Extinguishing materials should be selected according to the surrounding area.

6. Accidental release measures

Not applicable.

7. Handling and storage

Follow instructions of grinding machine manufacturers and the relevant national regulations. In addition, observe the safety recommendations of the manufacturer.

8. Exposure controls/personal protection

8.1. Control parameters

Before grinding it is recommended to perform a risk assessment and to use personal protection equipment accordingly.

Hazardous dust of the workpiece material may be generated during grinding and/or sanding operations. National regulations for dust exposure limit values have to be taken into consideration. Keep exposure to the following components under surveillance.

(Observe also the regional official regulations)

Occupational exposure limit values and/or biological limit values:

| Substance CAS-N° | Agency | Threshold limits | Remarks |
|--|----------|--|-------------------------------|
| Potassium tetrafluoroborate 14075-53-7 | ACGIH | TWA: 2.5 mg/m ³ | as Fluoride (F ⁻) |
| | OSHA | TWA: 2.5 mg/m ³ | as Fluoride (F ⁻) |
| | Cal/OSHA | TWA: 2.5 mg/m ³ | as Fluoride (F ⁻) |
| | NIOSH | TWA: 2.5 mg/m ³ | as Fluoride (F ⁻) |
| Aluminium oxide 1344-28-4 | OSHA | TWA: 15 mg/m ³ (total dust), 5 mg/m ³ (respirable fraction) | as alpha-Alumina |
| | Cal/OSHA | TWA: 10 mg/m ³ (total dust), 5 mg/m ³ (respirable fraction) | as alpha-Alumina |
| | CMRG | TWA: 1 fiber /cm ³ | as alpha-Alumina |



| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

ACGIH: American Conference of Governmental Industrial Hygienists
CMRG: Chemical Manufacturer Recommended Guideline
OSHA: Occupational Safety and Health Administration
Cal/OSHA: California Division of Occupational Safety and Health Administration
NIOSH: National Institute for Occupational Safety and Health
TWA: Time-Weighted-Average
STEL: Short-Term Exposure Limit
C: Ceiling Limit

8.2. Exposure controls

8.2.1. Individual protection measures

- 8.2.1.1. Respiratory protection: Use respiratory protective equipment (type depends on specific application and material being ground)
- 8.2.1.2. Hand protection: Wear protective gloves (type depends on specific application and material being ground)
- 8.2.1.3. Eye protection: Wear protective goggles or face shield (type depends on specific application and material being ground)
- 8.2.1.4. Hearing protection: Use hearing protection (type depends on specific application and material being ground)
- 8.2.1.5. Body protection: Use protective clothing (type depends on specific application and material being ground)

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Specific Information Element | Value |
|---|----------------|
| Physical State | solid |
| Color | Various colors |
| Odour | Odorless |
| Odour threshold | Odorless |
| pH | Not applicable |
| Melting point and freezing point | Not applicable |
| Initial boiling point and boiling range | Not applicable |
| Flash point | Not applicable |
| Evaporation rate | Not applicable |

| | |
|--|----------------|
| Flammability | Not applicable |
| Upper and lower flammability and explosive limits | Not applicable |
| Vapour pressure | Not applicable |
| Vapour density | Not applicable |
| Relative density | Not applicable |
| Solubility | Not applicable |
| Partition coefficient (n-octanol/water) | Not applicable |
| Auto-ignition temperature | Not applicable |
| Decomposition temperature | Not applicable |
| Viscosity | Not applicable |
| Explosive properties | Not applicable |
| Oxidising properties | Not applicable |
| Particle characteristics | Not applicable |

9.2. Other information

None.

10. Stability and reactivity

10.1. Reactivity

Coated Abrasives are stable when handled or stored correctly.

10.2. Chemical stability

No decomposition in normal use.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Coated Abrasives are stable when handled or stored correctly.

10.5. Incompatible materials

No dangerous reactions known.

10.6. Hazardous decomposition products

At temperatures exceeding 250 °C hazardous or toxic decomposition products may be generated.

11. Toxicological information

11.1. Information on toxicological effects

Inhalation: Dust may cause respiratory irritation.

Ingestion: None expect under normal use conditions.

Skin Contact: None expect under normal use conditions. Rubbing product across the skin may cause mechanical irritation or abrasions.

Eye contact: Dust may cause eye irritation. Dust particles may cause abrasive injury to the eyes.

Carcinogenicity: This product contains Trimethylolpropanetriacrylate, which may cause cancer and is suspected of causing genetic defects.

Acute Toxicity:

| Substance CAS-N° | Exposure type | Threshold value |
|---|--------------------|--|
| Potassium tetrafluoroborate 14075-53-7 | Oral Inhalation | >2000 mg/kg (LD50, rat) 5300 mg/m ³ air (LC50/4h, rat) |
| Aluminium oxide 1344-28-1 | Oral Inhalation | >2000 mg/kg (LD50, rat) >7.6 mg/L air (LC50/1h, rat) |
| Trimethylolpropanetriacrylate 15625-89-5 | Oral Dermal | 5710 mg/kg (LD50, rat) 5170 mg/kg (LD50, rabbit) |

12. Ecological information

12.1. Toxicity

No effects known.

12.2. Persistence and degradability

No biodegradable potentials known.

12.3. Bioaccumulative potential

No potentials known.

12.4. Mobility in soil

No potentials known.

12.5. Results of PBT and vPvB assessment

Not relevant.

12.6. Endocrine disrupting properties

No potentials known.

12.7. Other adverse effects

No effects known.

13. Disposal considerations

13.1. Waste treatment methods

13.1.1. Product

Follow national and regional regulations.

13.1.2. Packing

Follow national and regional regulations.

14. Transport information

The product is not covered by international regulation on the transport of dangerous goods.

15. Regulatory information

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

15.1. Safety, health and environmental regulations/legislation specific for the product

California Proposition 65:

⚠️WARNING: This product can expose you to Trimethylolpropanetriacrylate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

15.2. Chemical safety assessment

Not relevant.

16. Other information

Changes to the previous version

Sections 2, 3, 8, 11, 12

Hazard statements and Precautionary statements referred to in section 2 and 3

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H351i Suspected of causing cancer (inhalation).



Reference / Product name:
Super Abrasives (Cat. #11)
Version/Revision (date): 12/11/2024
Printing date: 12/11/2024

page 8 of 8

The above information is based on our current standard of knowledge and does not constitute any warranty of conditions of the product. The information does not form part of any contractual agreement. It remains the user's responsibility to adhere existing laws and regulations.

Revision Date: 2024-12-11

Issued by: Research and Development

Contact: Dr. Jessica Tschirch