

1. IDENTIFICATION OF THE IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** Resin bonded grinding wheel with Al oxide for steel
No. 6.16460 Type 27 A 24 Novoflex
- 1.2 Use of the product:** For grinding
- 1.3 Company:** Metabowerke GmbH
Address: Metabo-Allee 1
D-72622 Nürtingen
Phone: 0049 7022 72-2401 Fax: 0049 7022 72 2897
E-mail: HStreicher@metabo.de
- 1.4 Emergency telephone number:** In case of accident, seek to your personal medical man.

2. HAZARDS IDENTIFICATION

- 2.1. Classification:** Not applicable
Abrasives are articles and not dangerous substances or mixtures according to directive 1999/45/EC or Regulation (EC) N° 1272/2008.
See also section 8 and 16.
- 2.2. Label elements:** Abrasives are articles and not dangerous substances or mixtures and therefore no labelling is required according to directive 1999/45/EC or Regulation (EC) N° 1272/2008.
- 2.3. Other hazards:** By grinding do not inhale dust.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characterization: The product contains the following ingredients which are classified according to 67/548/EEC or Regulation (EC) Nr. 1272/2008 or for which a community occupational exposure limit value exists:

Substance	EC-N°	CAS-N°	REACH Registration N°	Conc.	Classification acc. to Regulation (EC) N° 1272/2008 (CLP)		Classification acc. to Directive 67/548/EWC
					Hazard classes/ hazard categories	Hazard statements	
Aluminium oxide	215-691-6	1344-28-1		> 65 %			
Iron sulphide	215-268-6	1317-37-9		<5%			
#Trisodium hexafluoroaluminate (bonded)	239-148-8	15096-52-3		< 1 %	STOT RE 1 Acute Tox. 4 * Acute Tox. 4 * Aquatic Chronic 2	H372 ** H332 H302 H411	T, N; 20/22- 48/23/25-51/53
# Aluminum potassium fluoride (bonded)	262-153-1	60304-36-1		< 1 %			Xn, Xi; 22-36/37/38
Phenol resin (cured)		9002-35-4		< 18 %			

Dangerous properties listed for cryolite, based on pure substance. In the product the Cryolit is thermically cured and bound in the structure. As such, it has no hazardous effects on human health and the environment.

3.2 Additional information: For full text of H- and R-phrases see section 16.

4. FIRST-AID MEASURES

4.1. Description of first aid measures

Inhalation: Not possible, due to the form of the product. By grinding dust may cause coughing, shortness of breath. Remove person to fresh air. Apply artificial respiration if needed. Obtain first aid or medical assistance.

Eye contact: Not possible, due to the form of the product. By grinding dust may irritate eyes. Wash with large amounts of water and obtain medical assistance if needed.

Skin contact: No harmful effects known.

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

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 Suitable 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.

5.4 Protective equipment: Wear full protective suit and breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions:** By grinding do not inhale dust. See also item 8.
6.2 Environmental precautions: Do not discard into environment.
6.3 Methods for cleaning up / taking up: Take up mechanically. Dispose according to item 13.

7. HANDLING AND STORAGE

7.1 Handling:

Special technical measures are not necessary. When is used and handled according to specification, the product does not have any harmful effects, according to our experience and the information provided to us. Handle with adequate ventilation for dust.

7.2 Storage:

Store in a dry place.

Recommendation: Follow instructions of grinding machine manufacturers and the relevant national regulations. In addition, observe the safety recommendations of the manufacturer. See FEPA regulations -Safety Code-European Safety Regulation for correct using of wheels.

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.

Occupational exposure limit values and/or biological limit values: Keep exposure to the following components under surveillance. (Observe also the regional official regulations)

MAC (for dust): 6 mg/m³

Note: 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.

8.2. Exposure controls: Individual protection measures

Respiratory protection: Use respiratory protective equipment (*)

Hand protection: Wear protective gloves (*)

Eye protection: Wear protective goggles or face shield (*)

Hearing protection: Use hearing protection (*)

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

Physical state: Solid.

Colour: Different.

Form: Different.

Solubility in water: No.

9.2. Other information: None.

10. STABILITY AND REACTIVITY

- 10.1 Stability:** Stable if handled and stored according to specifications. See also item 7.
10.2 Conditions to be avoided: See item 7. The products are stable when handled or stored correctly. Protect from atmospheric moisture of water.
10.3 Possibility of hazardous reactions: No dangerous reactions known.
10.4 Hazardous decomposition products: At temperatures exceeding 250° C hazardous or toxic decomposition products may be generated.
10.5. Incompatible materials: No dangerous reactions known.

11. TOXICOLOGICAL INFORMATION

- 11.1. Information on toxicological effects:** When are used and handled according to specifications, the products do not have any harmful effects according to our experience and the information provided to us. No toxicological effects if inhaled or swallowed or with eye or skin contact are known. See also section 8.

12. ECOLOGICAL INFORMATION

- 12.1. Toxicity:** No effects known.
12.2. Persistence and degradability: No biodegradable potentials known.
12.3. Bio accumulative potential: No potentials known.
12.4. Mobility in soil: No potentials known.

12.5. Results of PBT and vPvB assessment: Not relevant.

12.6. Other adverse effects: No effects known.

13. DISPOSAL CONSIDERATION

13.1. Waste treatment methods

Product: Follow national and regional regulations.

Abrasive tools include also particles of the tilled material; therefore, referring to information provided in the material safety data sheet is necessary.

- Due to the ingredients and properties disposal as non hazardous waste (2000/532/EC) is possible if no hazardous materials are added to the abrasives. (EWC – Nr. 120121),
- Due to the ingredients and properties disposal as hazardous waste (2000/532/EC) (EWC – Nr. 120120*)

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

15.1. Safety, health and environmental regulations/legislation specific for the product: No specific labelling requirements under respective EC directives.

15.2. Chemical safety assessment: Not relevant.

16. OTHER INFORMATION

The product does not contain Lead, Mercury, Cadmium, Hexavalent Chromium, Polybrominated biphenyls, Polybrominated diphenyl ethers, according to RoHS directive 2002/95/EC.

Changes to the previous versions: See sections 1, 3, 8, 13.

Literature and data sources:

Directive (1999/45/EC), amended by Regulation (EC) N°. 1907/2006.
Directive (67/548/EWG), amended by Directive 2009/2/EC.
REACH Regulation (EC) Nr. 1907/2006, amended by Regulation (EC) N° 552/2009.
Regulation (EC) N° 1272/2008, amended by Regulation (EC) N° 790/2009.
Directive 2000/39/EG, amended by Directive 2009/161/EC
Directive 75/324/EWG, amended by Regulation (EC) N° 219/2009.
Transport regulations according to ADR, RID und IATA.

Hazard statements referred to in section 2 and 3:

According to Regulation (EC) N° 1272/2008:

- H372 ** Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
- H332 Harmful if inhaled.
- H302 Harmful if swallowed.
- H411 Toxic to aquatic life with long lasting effects.

According to Directive 67/548/EWC:

- R20/22 Harmful by inhalation and if swallowed.
- R48/23/25 Toxic; danger of serious damage to health by prolonged exposure through inhalation and if swallowed
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R22 Harmful if swallowed.
- R36/37/38 Irritating to eyes, respiratory system and skin.

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.