MSDS



Material Safety Data Sheet

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Product Title and Summary

Product

identifier Zirconia cut-off wheel

TU Type30 (ISO type 41) TU Zirconia Cut-Off Wheel All size

Product compatible premium Zirconia resinoid cut-off wheels of general metal cutting and

descriptions machining tools

1. Company identification

Manufacture TU GLOBAL Co.,Ltd.

Address Poseung-eup Pyeongtaek-city kyonggi-do, korea

Department R & D Technology Development Institute

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Notices

Cut-off wheel is a safe product that does not cause any danger during transport or storage. When using the tool, install the proper protection devices to protect the worker, wear protective gear means to protect against dust generated while also cutting jobs, especially for workers.

It may have to appropriate action to prevent physical damage during transportation or storage of the product, if necessary.

2. Harzad·Risk

The cut-off wheel contain a fully cured phenol / formaldehyde resin.

If so, the dust produced when cutting trace of phenol and formaldehyde can be exposed over a long period of time remaining in the dust skin irritation and breathing difficulties can come.

Pictograms





H315 It causes skin irritation.

H319 It causes serious eye irritation.

Hazardous / phrases H335 May cause respiratory irritation.

H373 It may cause damage to the body through prolonged or repeated exposure.

Precautionary statements

Prevention

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P260 Do not breathe (dust, fumes, gas, vapor, mist, spray).

P261 (Dust, fumes, gas, vapor, mist, spray) Avoid inhalation of.

P264 Wash after handling the treated area thoroughly

P270 When using this product, Do not eat, drink or smoke.

P271 Use only outdoors or in a well-ventilated area.

Correspondence

P302+P352 skin contact: Wash with plenty of soap and water.

P304+P340 Inhalation: keep at rest in a position comfortable for breathing fresh air.

 ${\sf P305+P351+P338} \ \, {\sf Eye} \ \, {\sf contact} \, : \, {\sf Rinse} \ \, {\sf cautiously} \ \, {\sf with} \ \, {\sf water} \, \, {\sf for} \, \, {\sf several} \, \, {\sf minutes}.$

Remove contact lenses if possible. Continue rinsing.

P312 If you feel uncomfortable, call a poison center or physician.

P337+P313 If irritation persists in the snow Get medical attention.

P314 If you feel uncomfortable Get medical attention.

P332+P313 If skin irritation occurs: Get medical attention.

Urgent risk and hazard information

No known data

3. Composition / Information on Ingredients

Material	CAS NO.	Percent (%)
Aluminum Oxide	1344-28-1	50 - 85
Zirconium Oxide	53801-45-9	10 - 50
Cured phenolic resin	9003-35-4	15 - 25
calcium carbonate	471-34-1	1 - 20
Fiberglass	(N/A)	1 - 15

4. First Aid Measures

Eye contact

- 1. Flush with large amounts of water.
- 2. Remove contact lenses if easy to do.
- 3. Continue rinsing
- 4. If signs/symptoms persist, get medical

Skin contact

- 1. Wash with soap and water.
- 2. If signs/symptons develop, get medical attention.





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Inhalation 1. Remove person to fresh air

2. If you feel unwell, get medical attention

If Swallowed 1. Rinse mouth.

2. If you feel unwell, get medical attention

Note to physician 1. Not available

5. Fire Fighting Measures

Flash point N / A

Extinguishing media Water, foam, sand, powder or CO₂

6. Accidental release measures

Not applicable

7. Handling and Storage

- 1. Keep the materials out of direct sunlight
- 2. Do not place the materials on ground and concrete floor
- 3. A buffer storage area is used to maintain a flat, level surface and rough handling or dropping, if necessary
- 4. Avoid humid place and heating element such as heater and radiator
- 5. Keep it in condition of low temperature and humidity

8. Personal Protection

dust maskTo minimize the risk of inhalation , wear dust mask

Head protectionWear protective helmetHand protectionWear protective glovesFace protectionWear proective mask

Eye protection Wear protective goggles or face shield

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Hearing protection

Use hearing protection

9. Physical and Chemical Properties

Boiling Point (°C)	N / A	Specific Gravity (H ₂ O=1)	N / A
Vapor Pressure (mm Hg.)	N / A	Percent, Volatile by Volume (%)	N / A
Vapor Density (AIR=1)	N / A	Evaporation rate (Butyl Acetate =1)	N / A
Solubility in Water autoignition	N / A	Flash point	N / A
temperature	N / A	Appearance and odor	N / A

10. Stability and Reactivity

chemical Stability Stable
Condition to Avoid None.

Incompatibility Strong acids, Strong bases & Strong oxidizing agents may modify the materials to avoid) Strong acids, Strong bases & Strong oxidizing agents may modify the mechanical characteristics of the products and create safety hazards when

used on machines.

Hazardous

Decomposition Product

Hazardous Polymerization None.

Will nor occur

11. Toxicological Information

No toxicological effects if inhaled or with eye or skin contact are known

12. Ecological Information

Ecotoxicity No effects known Mobility No potentials kown

Persistence and degradability No biodegradable potentials known

Bioaccumulative potential No potential known Other hazardous effects No effects known





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13. Disposal Considerations

Follow national and regional and regulation.

14. Transport Information

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

15. Regulatory information

No specific issues

16. Other Information

- 1) The purpose of this MSDS is because it was created on the basis of known knowledge, experience and relevant regulations but not to fully guarantee the product itself
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