

Kar Products - 461 N. Third Ave. - Des Plaines, IL 60016

Kar Number: 76516

Source: 0269

Description: Gold-Cut Cut-Off Wheel

Phys. Plant

CATEGORY 1
MATERIAL SAFETY DATA SHEET
(Complies with OSHA 29 CFR 1910.1200)

Section 1.0 IDENTIFICATION

Products: aluminum oxide grinding and cut off wheels, organic bonded

MANUFACTURED FOR:

KAR PRODUCTS

461 N. THIRD AVE.

DES PLAINES, IL 60016

EMERGENCY: 800/752-7869 ext. 15

INFORMATION: 800/527-7763

Date prepared: 9/14/93

Section 2.0 HAZARDOUS INGREDIENTS

2.1 Abrasive

| Common name | Chemical name | CAS NO. | OSHA | ACGIH | CARCINOGEN |
|---------------|-----------------------|------------|--------------|--------------|------------|
| | | | PEL mg/m3 | TLV mg/m3 | |
| Alpha alumina | Aluminum oxide | 1344-28-1 | 15 | 10 | N |
| Cryolite | Sodium alum fluoride | 15096-52-3 | 2.5 | 2.5 | N |
| Almandite | Ferric Alum. Silicate | 1302-62-1 | 10 | NAIF | N |
| Zirconia | Zirconium dioxide | 7440-67-7 | 5 | 5 | N |
| Zircon | Zirconium silicate | 7440-67-7 | 5 | 5 | N |

7.3 Clean up using normal housekeeping methods

7.4 Dispose of broken items and pieces to the applicable landfill in conformance with state or local regulations.

Section 8.0 CONTROL MEASURES

8.1 Ventilation

Use in a well ventilated area. Additional local exhausts are recommended to keep dust concentrations below the permissible levels.

8.2 Respiratory

NIOSH approved respirators may be required in some area.

8.3 Protective clothing and equipment

Goggles or safety glasses with side shields are recommended. Long sleeved shirts should be worn during grinding. Aprons, face shields and gloves may be worn as desired.

Section 9.0 SPECIAL PRECAUTIONS

9.1 Avoid breathing grinding dust.

9.2 Avoid skin and eye contact with grinding dust.

9.3 Wear ear plugs or muffs while grinding.

9.4 Refer to ANSI B7.1 for additional precautions relative to handling, storage, and safe use of abrasive wheels.

2.2 Binder system

| Common name | Chemical name | CAS NO. | OSHA | ACGIH | CARCINOGEN |
|--------------|----------------------------|------------|--------------|--------------|------------|
| | | | PEL mg/m3 | TLV mg/m3 | |
| Resin | Phenol-formaldehyde (PNOR) | 9003-35-4 | 15 | 10 | N |
| Lime | Calcium oxide | 1305-78-8 | 5 | 2 | N |
| Black Carbon | 1333-86-4 | 3.5 | 3.5 | N | N |
| - | Iron Oxide | 1309-37-1 | 10 | 5 | N |
| - | Titanium dioxide | 13463-67-7 | 15 | 10 | N |
| Wax | Parafin wax | 8002-74-2 | 2 | 2 | N |

Carbon

2.3 Reinforcing

| | | | | | |
|-------------|-----------|------------|----|----|---|
| Fiberglass | | | | | |
| Fabric mesh | Amorphous | 65997-17-3 | 15 | 10 | N |

Section 3.0 PHYSICAL CHARACTERISTICS

| | |
|-------------------------|--|
| 3.1 Boiling point | N/A |
| 3.2 Vapor Pressure | N/A |
| 3.3 Vapor density | N/A |
| 3.4 Specific gravity | Greater than 1 |
| 3.5 Solubility in water | Insoluble |
| 3.6 Melting point | N/A |
| 3.7 Evaporation rate | N/A |
| 3.8 Appearance & odor | Formed solid with little or no odor. Some odor may be produced in use. |

Section 4.0 FIRE AND EXPLOSION HAZARD

| | |
|--------------------------------------|------|
| 4.1 Flash point | N/A |
| 4.2 Flammable limits | N/A |
| 4.3 Extinguishing media | N/A |
| 4.4 Fire fighting procedures | N/A |
| 4.5 Unusual fire & explosion hazards | None |

Category 1

Section 5.0 REACTIVITY DATE

- | | |
|---|---------------------|
| 5.1 Stability | Fully stable |
| 5.2 Condition to avoid | None |
| 5.3 Materials to avoid | Strong acids |
| 5.4 Hazardous decomposition or by-products | |

This product will not decompose. Dusts are generated while in use, which will consist of degradation products from the wheel and from the work piece.

Section 6.0 HEALTH HAZARD DATE

6.1 Routes of entry:

The principal routes of entry are inhalation, ingestion, eyes, and skin.

6.2 Inhalation:

Regular exposure to grinding dusts may cause respiratory problems, mucous membrane irritation, or aggravate pre-existing conditions. Prolonged exposure to fluorides may cause skeletal or dental fluorosis. Prolonged exposure to silica may cause silicosis or cancer but no reports of definitive test results showing that these health problems have been caused by grinding wheel dusts have been found.

6.3 Ingestion

Ingestion is unlikely and is not recommended, but no adverse affects are known.

6.4 Eye contact

Dusts may irritate the eyes. If irritation occurs, flush the eyes with water and obtain medical attention.

6.5 Skin contact

Prolonged dust exposure may cause skin irritation. If this occurs, wash with soap and water and obtain medical attention.

Section 7.0 HANDLING PROCEDURES

7.1 Handle and store with care to prevent breakage or crushing

7.2 If dropped or spilled, inspect carefully to detect and remove cracked or broken pieces.