

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DIE GRINDER ABRASIVES: CUT OFF WHEELS

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2. HAZARDS IDENTIFICATION

Emergency Overview: May be harmful if inhaled. May cause respiratory track, eye and skin irritation. May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. May cause damage to the following organs: lungs, central nervous system, digestive system, respiratory track, skin, eyes, blood, kidneys, liver.

GHS Classification (Hazcom 2012):

Acute toxicity, inhalation, Category 4

Skin Corrosion/Irritation, Category 2

Carcinogenicity, Category 1B

Serious eye damage/eye irritation, Category 2

Specific Target Organ Toxicity (Single Exposure), Category 3 respiratory tract irritation

Specific Target Organ Toxicity (Repeated Exposure), Category 1 (lungs, skeletal)

Labelling:

Symbols:



Signal Word: Danger

Hazard Statements:

H315 + H319 + H 335 - May cause skin, eye and respiratory irritation.

H333 - May be harmful if inhaled.

H350 – May cause cancer.

H362 - May cause harm to breast-fed children.

H372 - Causes damage to organs (lungs, skeletal) through prolonged or repeated exposure.

H410 - Very toxic to aquatic life with long-lasting effects.

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Precautionary Statements:

- P210** – Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- P211** - Do not spray on an open flame or other ignition source.
- P261** - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264** – Wash skin and hair thoroughly after handling.
- P280** – Wear protective gloves/protective clothing/eye protection/face protection.
- P272** – Contaminated work clothing should not be allowed out of the workplace.
- P280** – Wear protective gloves/eye protection/face protection
- P281** – Use personal protective equipment as required.
- P302 + P352** – IF ON SKIN: Wash with plenty of soap and water.
- P304+P341** - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P338 + P351** – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. If exposed or concerned: Get medical advice/attention.
- P333 + P313** - IF skin irritation or rash occurs: Get medical advice/attention.
- P363** – Wash contaminated clothing before reuse.
- P405** – Store locked up.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Identity | CAS # | Range % | OSHA PEL (mg/m3) |
|-----------------------------------|------------|---------|---------------------|
| Aluminum Oxide | 1344-28-1 | 40-95 | 5 |
| Zirconium Dioxide | 1314-23-4 | 40-95 | 10 |
| Silicon Carbide Whiskers | 409-21-2 | 40-95 | 5 |
| Aluminum Potassium Fluoride | 60304-36-1 | 5-40 | 2.5 |
| Calcium Carbonate | 471-34-1 | 2-30 | 5 |
| Trisodium Hexafluoro aluminate | 15096-52-3 | 2-30 | 2.5 |
| Tripotassium Hexafluoro aluminate | 15096-52-3 | 2-30 | 2.5 |
| Fiberglass | 65997-17-3 | 13 | 10 3 fibers/cm3 |

Important: This section covers the materials of which the products manufactured. The fumes and gases produced during normal use of this product are covered in section 10. The term "Hazardous" in "Hazardous Material" should be interpreted as a term required and defined in OSHA Hazard Communication Standard 29CFR 1910-1200 and it does not necessarily imply the existence of hazard. The chemicals or compounds reportable by Section 313 of SARA are marked by the symbol #.

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4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If continued difficulty is experienced get medical attention immediately.

Skin: Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

Eye: Flush eyes with water for at least 15 minutes. Get medical attention.

Ingestion: Aspiration hazard. Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog.

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

General fire hazards: No unusual fire or explosion hazards noted.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalis.

Protective Equipment: Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken if Material Is Released Or Spilled:

Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Wash thoroughly after handling. Wash hands before eating. Use only in a well ventilated area. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

Storage: Isolate from heat, electrical equipment, sparks and open flame. Do not store above 120 degrees F. Store large quantities in buildings designed and protected for storage that comply with OSHA 1910.106

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply or an emergency shower.

Personal protection: Wear safety glasses with side shields. Protective outerwear. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate chemical resistant gloves.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid
Form: Wheel
Color: Black, Brown Red, Blue
Odor: Slight
Odor Threshold: Not Available
pH Value: Not Available
Freezing Point: Not Available
Boiling Point/Boiling Range: Not Applicable
Flash point: Not Applicable
Evaporation Rate: Not Applicable
VOC Emitted (lb./gal): Not Available
Explosion limits: Not Available
Vapor pressure: Not Available
Vapor density: Not Available
Density at 20°C: Not Available
Specific Gravity: (water = 1.0): Not Available
Solubility: Negligible.
Partition coefficient: Not Available
Auto-ignition temperature: Not Available
Decomposition temperature: Not Available
Other Information: No available data.

10. STABILITY AND REACTIVITY

Chemical Stability: This product is stable under normal conditions. Avoid Incompatible products.
Hazardous Decomposition Byproducts: May produce hazardous fumes when heated to decomposition as in welding.
Hazardous Polymerization: Hazardous polymerization does not occur.
Incompatible Materials: Oxidizing materials.
Conditions to Avoid: High temperatures.

11. TOXICOLOGICAL INFORMATION

| | |
|---|--------------------------------|
| LD/LC50 Values that are relevant for classification | |
| Trisodium Hexafluoro aluminate 15096-52-3 | |
| Oral | LD50, >5000 mg/kg, (Rat) |
| Inhalation | LC50, 4.47 mg/l, 4 hours (Rat) |
| Dermal | LD50, >2100 mg/kg (Rabbit) |

| | |
|---|------|
| LD/LC50 Values that are relevant for classification | |
| Calcium Carbonate 471-34-1 | |
| Oral | LD50 |

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12. ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

Trisodium Hexafluoro aluminate 15096-52-3

Fish: Rainbow Trout, Donaldson Trout

LC50, 47 mg/l, 96 hours

Persistence and degradability: No data available

Bio accumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

The waste code should be assigned in discussion between the user, the producer, and the waste disposal company. Dispose of in accordance with all Federal, State and Local Environmental regulations.

14. TRANSPORT INFORMATION

DOT

UN number: UN3077

UN proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Trisodium Hexafluoro aluminate)

Transport hazard class

Class: 9

Labels: 9

Special provisions: 8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33

Packaging exceptions: 155

Packaging non bulk: 213

Packaging bulk: 240

15. REGULATORY INFORMATION

TSCA - The product on this SDS, or all of its components, is listed under TSCA.

CERCLA-SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" Promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: IMMEDIATE HEALTH HAZARD: YES, CHRONIC HEALTH HAZARD: YES, FIRE HAZARD: NO

SARA SECTION 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

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| Chemical Name | CAS Number |
|----------------|------------|
| Aluminum Oxide | 1344-28-1 |

16. OTHER INFORMATION

The information in this document is believed to be correct as of the date issued. However, no warranty is expressed to be implied regarding the accuracy or completeness of this information. This information and product are furnished on the condition that the person receiving them shall make his own determinations as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof.

This Safety Data Sheet complies with the EC directives 91/155/EEC and 93/112/EEC, including modifications 2001/58/EC. Complies with OSHA Communication Standard 29 CFR 1910.1200 and Superfund Amendments and Reauthorization Act (SARA) of 1986 Public Law 99-499

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