



# SAFETY DATA SHEET - AF-540

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## 1. Identification

**Product Name:** AF-540 Cleaning & Deburring Compound

**Manufacturer/Supplier:** RockRidge Abrasives  
9000 Byron Commerce Dr. SW  
Byron Center, MI 49315

**Telephone/Fax Number:** Phone: 716-759-6600  
Fax: 716-759-6602

**E-Mail:** sales@rockridgeabrasives.com

**Date of Revision:** 12/9/2024

## 2. Hazard(s) Identification

### Classification of the substance or mixture

**Physical Hazard:** Corrosive to Metals (Category 1), May be corrosive to metals.

**Health Hazards:** Acute Toxicity- Oral (Category 4), Harmful if swallowed.  
Skin corrosion (Category 1), Causes severe skin burns and eye damage.  
Serious eye damage (Category 1), Causes serious eye damage.  
Specific target organ toxicity- single exposure (Category 3), Respiratory system, may cause respiratory irritation.

**Environmental hazards:** Not classified.

### GHS Label elements and precautionary statements

**Pictogram** Corrosion- Exclamation Mark

**Signal word** **DANGER**

**Prevention** Keep only in original packaging. Absorb spillage to prevent material damage. Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective gloves or clothing. Avoid breathing dust/gas/fume/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product.

**Response** IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor/ Seek immediate medical attention if you feel unwell

**Storage** Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in corrosion resistant container or container with a resistant inner liner.

**Disposal** Dispose of contents/container in accordance with applicable regulations.

### Hazards not otherwise classified (HNOC) or not covered by GHS.

HMIS Rating: Health hazard: 2 Chronic Health Hazard: Flammability: 0  
Physical Hazard 0  
NFPA Rating: Health hazard: 2 Fire Hazard: 0 Reactivity Hazard: 0



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### 3. Composition / Information on Ingredients

Component	Cas	%Wt.
Sodium Carbonate	497-19-8	50-70
Sodium Metasilicate	6834-92-0	15-30
Alkylaryl polyether alcohol	68412-54-4	1-3

\*This composition consists of a combination of ingredients. The ones potentially contributing to classified hazards are reported above. The above chemistries are provided for industrial hygiene and environmental purposes and are not intended to represent product specifications. Read and understand the entire SDS, as there is important information throughout the document.

### 4. First-Aid Measures

#### Description of first aid measures

<b>General advice:</b>	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor and first responders. Added information for exposure:
<b>In case of eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.
<b>In case of skin contact:</b>	Wash with plenty of water. Take off all contaminated clothing. Wash contaminated clothing before reuse. Seek immediate medical attention if you feel unwell.
<b>If inhaled:</b>	Remove person to fresh air and keep comfortable for breathing.
<b>If swallowed:</b>	Contact a POISON CENTER/doctor/see immediate medical attention. Immediately call a POISON CENTER/doctor/ Seek immediate medical attention. Specific treatment is shown. Rinse mouth.
<b>Most important symptoms and effects, both acute and delayed:</b>	See Sections 2 and 11.
<b>Indication of any immediate medical attention and special treatment needed:</b>	No data available.

### 5. Fire-Fighting Measures

#### Extinguishing Media

Suitable Extinguishing Media: Use dry chemical, foam or water fog to extinguish.

Unsuitable Extinguishing Media: Do not use direct water stream.

**Special hazards arising from the substance or mixture:** Use water spray to cool fire exposed container surfaces and to protect personnel. Thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (an asphyxiate at sufficient concentrations).

**Advice for firefighters:** Wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. (MSHA/NIOSH approved or equivalent).

**Further information:** If employees are expected to fight fires, training and equipment information can be found in OSHA Fire Brigades Standard (29 CFR 1910.156).



## 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Avoid breathing dust, fume/gas/mist/spray. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.

**Environmental precautions:** Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

**Methods and materials for containment and cleaning up:** Contain spilled material if possible. Cover large spills for removal with earth moving equipment. Vacuum small spills. Use suitable and properly labeled containers. Dispose of contents/container to an approved waste disposal plant. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Reference to other sections-resources:** For additional information, refer to Section 8: Exposure Controls and Personal Protection, Section 7: Handling, Section 12: Ecological Information, Section 13: Disposal Considerations and OSHA Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120).

## 7. Handling and Storage

### Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes. Do not breathe dust/gas/fume/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. If exposed or concerned: CALL A POISON CENTER.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in a well-ventilated place.

**Specific end use:** See Section 1.



## 8. Exposure Controls / Personal Protection

### **Control parameters:**

Guidelines may not apply to every situation. Industrial hygiene evaluations should be completed at each work place. Exposure limits are for air levels only. When skin contact also occurs, workers may be overexposed, even though air levels are less than the limits when provided.

### **Component Workplace Exposure Limits:**

No occupational exposure limits have been established for Sodium Carbonate (497-19-8)- Sodium Metasilicate (6834-92-0) – Alkylaryl polyether alcohol (68412-54-4). This does not mean that this substance is not harmful. Safe work practices should always be followed.

### **Exposure controls:**

Appropriate engineering controls: Where possible, enclose operations and use local exhaust ventilation at the site of chemical release. Maintain airborne levels below exposure limit requirements or guidelines. If local exhaust ventilation or enclosure is not used respirators should be worn. Wear protective work clothing. Facilities storing, packaging or utilizing product should be equipped with an eyewash and a safety shower facility. Wash thoroughly immediately after exposure, before breaks and the end of the work shift. Post hazard and warning information in the work area. In addition, as part of an ongoing education and training effort, communicate all information on the health and safety hazards to potentially exposed workers.

### **Personal protective equipment:**

Safety glasses and chemical resistant gloves are recommended whenever chemicals are handled. Obtain detailed information from OSHA Personal Protective Equipment Standard (29 CFR 1910.132) and equipment suppliers.

Eye/face protection: Face shield and, or safety glasses are recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Wear protective gloves/protective clothing. Dispose of contaminated gloves after use in accordance with applicable regulations and good practices. Wash and dry hands. Wash contaminated clothing and decontaminate shoes before reuse.

Respiratory protection: Use when overexposure potential. Improper use of respirators is dangerous. Respirators should only be used with a written program as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).

### **Control of environmental exposure:**

Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with regulations.



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### 9. Physical and Chemical Properties

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**Form:** Granular Solid  
**Color:** White/Off White  
**Odor:** Mild  
**Boiling Point/Range:** N/A  
**Flash Point:** N/A  
**Auto Ignition Temp:** N/A  
**Flammability Limit - LEL:** N/A- **UEL:** N/A  
**Vapor Pressure:** N/A  
**Vapor Density:** N/A  
**Freezing Point/Melting Point:** N/A  
**Solubility (Water):** 100%  
**Specific Gravity:** N/A  
**Evaporation Rate:** (Ethyl ether = 1): N/A  
**Viscosity:** N/A  
**pH:** 12.1 @1%  
**Volatility (wt. %):** 0  
**Bulk Density:** 60 lbs./cu. ft.

### 10. Stability and Reactivity

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**Reactivity:** Not reactive under normal conditions.  
**Chemical stability:** Stable under recommended storage conditions.  
**Possibility of hazardous reactions:** When in contact with incompatible materials.  
**Conditions to avoid:** Exposure to moisture, contact with incompatible materials and temperature extremes.  
**Incompatible materials:** Strong oxidizers. Strong acids.  
**Hazardous decomposition products:** Does not decompose under normal conditions.  
**Other decomposition products:** During fire, thermal decomposition can produce Sodium oxides, Silicon oxides, Carbon monoxide (highly toxic) and Carbon dioxide (an asphyxiate at sufficient concentrations).

### 11. Toxicological Information

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#### Information on Toxicological Effects

##### Component toxicity:

Sodium Carbonate (497-19-8): Acute toxicity LD50 Oral- Rat- 4,090 mg/kg LC50 Inhalation- Rat- 2 h- 5,750 mg/l Skin corrosion/irritation Skin – Rabbit

Disodium metasilicate (6834-92-0): Acute toxicity LD50 Oral- rat- male and female- 1,152- 1,349 mg/kg Remarks: Gastrointestinal: Ulceration or bleeding from stomach. Skin corrosion/irritation Skin – rabbit Result: Corrosive- 4 h (OECD Test Guideline 404)

Alkylaryl polyether alcohol (68412-54-4): No data available.

##### Mixture toxicity:

Inhalation – Dermal- Skin corrosion/irritation- Eye damage/eye irritation – Respiratory/skin sensitization- Germ cell mutagenicity – Reproductive toxicity- Specific target organ toxicity- single exposure- Specific target organ toxicity- repeated exposure- Aspiration hazard- Carcinogenicity: No data available for mixture.

##### Additional Information:

None known.



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### 12. Ecological Information

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#### **Ecotoxicity**

##### **Component ecotoxicity**

Sodium Carbonate (497-19-8): Toxicity to fish LC50- Lepomis macrochirus (Bluegill)- 300 mg/l- 96 h  
Toxicity to daphnia and other aquatic invertebrate- EC50- Daphnia magna (Water flea)- 265 mg/l- 48 h.

Sodium Metasilicate (6834-92-0): Toxicity to fish semi-static test LC50- Danio rerio (zebra fish)- 210 mg/l- 96 h

Alkylaryl polyether alcohol (68412-54-4): No data available.

##### **Mixture ecotoxicity**

Toxicity to Fish- Persistence and Biodegradability- Bioaccumulative Potential- Mobility in Soil: No data available for mixture.

##### **Other adverse effects**

None known.

### 13. Disposal Considerations

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#### **Waste treatment methods**

**Product:** Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport Information

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**DOT: Not Regulated**

**IATA: Not Regulated**

**IMDG: Not Regulated**

\*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through a shipper authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of this material.



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### 15. Regulatory Information

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#### **Federal**

TSCA: Components of this product are listed on the TSCA Inventory.

RCRA: None of the ingredients are currently listed as a substance or a source waste under current RCRA regulations (40 CFR 261.31, 32 and 33).

CERCLA: Product is not found on Table 302.4, 40 CFR part 302.

SARA TITLE III: (Superfund Amendments and Reauthorization Act)

302 Components: None are subject to the reporting requirements of Section 302.

313 Components: None that exceed the threshold (De Minimis) reporting levels established by Section 313.

311/312 Hazards: Chronic, Health

#### **States**

State Right to Know Components: PA and NJ: Sodium Carbonate (497-19-8)- Disodium metasilicate (6834-92-0)- Alkylaryl polyether alcohol (68412-54-4)

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### **Canada**

DSL: This product, or its components, are listed on or are exempt from the Canadian Domestic Substances List.

WHMIS: Sodium metasilicate: D2B Toxic Material Causing Other Toxic Effects-

Sodium nitrite: C: Oxidizer- D-1B: Toxic (acute effects)- D-2B: Toxic (mutagenic, skin & eye irritant)  
- Sodium Carbonate (497-19-8)- Alkylaryl polyether alcohol (68412-54-4): Not classified.



## 16. Other Information

### Full alphanumeric H-Statements and P-Statements.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation; or H336 May cause drowsiness or dizziness

P234 Keep only in original packaging.

P260 Do not breathe dusts or mists.

P261: Avoid breathing dust/gas/fume/mist/vapors/spray.

P264 Wash thoroughly after handling.

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

P280 Wear protective gloves or clothing.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Immediately call a POISON CENTER/doctor/ Seek immediate medical attention if you feel unwell

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P406 Store in corrosion resistant container or container with a resistant inner liner.

P501 Dispose of contents/container in accordance with applicable regulations.

### Disclaimer

Hazard ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all information contained in this SDS must be considered. The information in this Safety Data Sheet was obtained from sources we believe reliable. However, the information is provided without any warranty, expressed or implied regarding to its correctness. The conditions or methods of handling, storage, and/or disposal of this product is beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with usage, storage or disposal of this product. See Section 2 for technical and for emergency contact information.