



SAFETY DATA SHEET - AF-D

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Revision: 12/10/2024

1. Identification

Product Name:	AF-D
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:	12/10/2024

2. Hazard(s) Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Skin Corr./Irrit. 2 Skin corrosion/irritation
Aquatic Acute 1 Hazardous to the aquatic environment- acute
Aquatic Chronic 2 Hazardous to the aquatic environment- chronic

Label elements

Pictogram: N/A

Signal Word: Warning

Hazard Statement:

H315 Causes skin irritation.
H411 Toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
Precautionary Statements (Prevention):
P280 Wear protective gloves.
P273 Avoid release to the environment.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P391 Collect spillage.
P362 + P364 Take off contaminated clothing and wash before reuse.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.
Labeling of special preparations (GHS):
This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.
According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

WARNING: CAUSES SKIN IRRITATION.
Avoid contact with the skin, eyes and clothing. Wear protective clothing.



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3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number Content (W/W) Chemical name

Trade Secret 75.0- 100.0 % Ethoxylated alcohol

This product does not contain any components classified as hazardous under the referenced regulation.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number Content (W/W) Chemical name

Trade Secret 75.0- 100.0 % Ethoxylated alcohol

4. First-Aid Measures

Description of first aid measures

General advice: Remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air, seek medical attention.

If on skin: Wash thoroughly with soap and water.

If in eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed: Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons: water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting: harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting: Wear a self-contained breathing apparatus.

Further information: The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Further accidental release measures: High risk of slipping due to leakage/spillage of product.

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Keep people away and stay on the upwind side.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).
Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Protect against moisture: Shut containers immediately after taking product because product takes up the humidity of air.

Protection against fire and explosion: Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

The product is not damaged by low temperatures or by frost.

Protect from temperatures above: 70 °C

Properties of the product change irreversibly on exceeding the limit temperature.

8. Exposure Controls / Personal Protection

Personal protective equipment

Respiratory protection: Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosols/dust are formed.

Hand protection: Chemical resistant protective gloves. Consult with glove manufacturer for testing data.

Eye protection: Safety glasses with side-shields.

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures: Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Avoid contact with skin and eyes.

9. Physical and Chemical Properties

Form: liquid
Odour: product specific
Colour: colourless to yellowish
pH value: approx. 7 (50 g/l, 23 °C) (DIN EN 1262)
solidification temperature: approx.-25 °C (DIN 51583)
Boiling point: > 250 °C
Flash point: approx. 190 °C (DIN ISO 2592)
Flammability: not self-igniting
Autoignition: > 200 °C (DIN 51794)
Vapour pressure: < 0.1 hPa (20 °C)
Density: approx. 0.94 g/cm³ (20 °C) (DIN 51757)
Relative density: No data available.
Vapour density: not determined
Partitioning coefficient noctanol/ water (log Pow): not applicable
Self-ignition temperature: not self-igniting
Thermal decomposition: > 300 °C
Viscosity, dynamic: 60 mPa.s (23 °C)
Particle size: The substance / product is marketed or used in a non solid or granular form.
Solubility in water: insoluble
Miscibility with water: not (e.g. <10%)
Solubility (qualitative): soluble
solvent(s): petroleum spirit, Ethanol
Evaporation rate: No data available.
Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.
Corrosion to metals: Corrosive effects to metal are not anticipated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.
The product is chemically stable.

Conditions to avoid

Avoid humidity. See MSDS section 7- Handling and storage.

Incompatible materials

caustics, halogens, Alkalines, acids, reactive chemicals

Hazardous decomposition products

Decomposition products: Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.
Thermal decomposition: > 300 °C



11. Toxicological Information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Oral

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

Irritation / corrosion

Assessment of irritating effects: Irritating to skin.

Skin

Species: rabbit

Result: Irritant.

Method: Draize test

Information on: Ethoxylated alcohol-----

Eye

Species: rabbit

Result: non-irritant

Method: Draize test

Sensitization

Assessment of sensitization: No data available.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria.

Genetic toxicity in vitro: Ames-test with and without metabolic activation negative

Carcinogenicity

Assessment of carcinogenicity: No data available concerning carcinogenic effects.

Reproductive toxicity

Assessment of reproduction toxicity: No data available.

Teratogenicity

Assessment of teratogenicity: No data available.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.



12. Ecological Information

Toxicity

Toxicity to fish: LC50 (96 h) 1- 10 mg/l, *Leuciscus idus*

Aquatic invertebrates: EC50 (48 h) 1 mg/l

Aquatic plants: EC50 (72 h) 0.1- 1 mg/l

No observed effect concentration (72 h) 0.063 mg/l, *Scenedesmus subspicatus* (OECD Guideline 201)

Chronic toxicity to fish: No data available.

Chronic toxicity to aquatic invertebrates: No observed effect concentration (21.0 d) 0.25 mg/l, *Daphnia magna*

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

DIN EN ISO 8192 activated sludge: 1,000 mg/l

Persistence and degradability

Elimination information

>= 90 % Bismuth-active substance (mod. OECD 301E))

> 60 % CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Readily biodegradable.

Mobility in soil

Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.

Absorption to solid soil phase is possible.

Additional information

Sum parameter

Chemical oxygen demand (COD): 2,270 mg/g

Absorbable organically-bound halogen (AOX): This product contains no organically-bound halogen.

Add. remarks environm. fate & pathway: Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice: Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

13. Disposal Considerations

Waste disposal of substance: Dispose of in accordance with national, state and local regulations. Do not discharge into drains/surface waters/groundwater.

Container disposal: Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Dispose of in accordance with national, state and local regulations.



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14. Transport Information

Land transport

USDOT

Hazard class: 9

Packing group: III

ID number: UN 3082

Hazard label: 9, EHSM

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FATTY ALCOHOL ALCOXYLATE)

Sea transport

IMDG

Hazard class: 9

Packing group: III

ID number: UN 3082

Hazard label: 9, EHSM

Marine pollutant: YES

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FATTY ALCOHOL ALCOXYLATE)

Air transport

IATA/ICAO

Hazard class: 9

Packing group: III

ID number: UN 3082

Hazard label: 9, EHSM

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FATTY ALCOHOL ALCOXYLATE)

15. Regulatory Information

Federal Regulations

Registration status: Chemical TSCA, US released / listed
EPCRA 311/312 (Hazard categories): Acute;

State regulations

CA Prop. 65: WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

NFPA Hazard codes: Health : 2 Fire: 1 Reactivity: 0 Special:

HMIS III rating: Health: 2 Flammability: 1 Physical hazard:0

16. Other Information

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.