

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: ACRIFIX® AC 1010

Other means of identification

None.

Recommended restrictions

Recommended use: antistatic cleaning agent

Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Company Name : Roehm America LLC
299 Jefferson Road
Parsippany, NJ 07054
USA

Telephone : +1 800-225-0172

E-mail : product-regulatory-services@roehm.com

Manufacturer

Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency : +1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 3

Health Hazards

Serious Eye Damage/Eye Irritation Category 2A

Environmental Hazards

Acute hazards to the aquatic environment Category 2

Chronic hazards to the aquatic environment Category 3

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: Flammable liquid and vapor.
Causes serious eye irritation.
Toxic to aquatic life.
Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid release to the environment.

Response: IF IN EYES: 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. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
Propan-2-ol		67-63-0	5 - <10%
1-Hexadecanaminium, N,N,N-trimethyl-,		112-02-7	0.25 - <1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information:	First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately. Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.
Inhalation:	If inhaled, remove to fresh air. If breathing is difficult, get medical attention.
Skin Contact:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a physician.
Eye contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical advice/attention.
Ingestion:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get immediate medical advice/attention. Never give anything by mouth to an unconscious person.
Personal Protection for First-aid Responders:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear., Containers can build up pressure if exposed to heat (fire)., Cool with water spray.

Most important symptoms/effects, acute and delayed

Symptoms:	Redness
Hazards:	Serious Eye Damage/Eye Irritation

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
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5. Fire-fighting measures

General Fire Hazards:	Combustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.
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Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	foam Dry chemical. Carbon dioxide
Unsuitable extinguishing media:	High volume water jet

Specific hazards arising from the chemical: May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Keep away from sources of ignition - No smoking. Take action to prevent static discharges. In the event of fire, cool the endangered containers with water. When heated above the flash point and/or during spraying (atomizing), ignitable mixtures may form in air.

Special protective equipment for fire-fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: High risk of slipping due to leakage/spillage of product. Assure sufficient ventilation. Use personal protective clothing. Keep away from heat and sources of ignition. Use breathing apparatus if exposed to vapours/dust/mist/aerosol. Do not breathe vapours or spray mist. Do not eat, drink or smoke when using this product. Wash hands thoroughly with soap and water after handling.

Accidental release measures: Evacuate area and do not approach spilled product. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). For personal protection see section 8.

Methods and material for containment and cleaning up: Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment! Smaller quantities and/or residues: Take up with absorbent material (e.g. sand, sawdust, general-purpose binder, diatomaceous earth). Dispose of in accordance with regulations.

Environmental Precautions: Prevent product from getting into drains/surface water/groundwater.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Use process enclosures, local exhaust ventilation or other engineering controls to control airborne exposure. Explosion proof ventilation recommended.

Safe handling advice: Handle in accordance with good industrial hygiene and safety practice. Keep container tightly closed. Avoid breathing mist or vapor. Use with adequate ventilation. Keep containers closed when not in use. Avoid contact with skin and eyes. Wash thoroughly after handling. Do not eat, drink or smoke during use. Keep away from heat. Keep away from sparks, flames and other sources of ignition. Vapors are heavier than air and may accumulate in sinks, sumps and along floors. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Follow all SDS/label precautions even after the container is emptied because it may retain product residues. Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container. When heated above the flash point and/or during spraying (atomizing), ignitable mixtures may form in air. A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Contact avoidance measures: No data available.

Hygiene measures: Follow the usual good standards of occupational hygiene. Store work clothing separately. Remove contaminated, soaked clothing. Take off clothing and shoes contaminated with product. Clean before reuse. Clean skin thoroughly after work; apply skin cream.

Storage

Safe storage conditions: Keep containers closed when not in use. Protect from freezing. Keep away from heat and flame. Improper disposal or re-use of this container may be dangerous and illegal.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Propan-2-ol	TWA	200 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	STEL	400 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	REL	400 ppm 980 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	STEL	500 ppm 1,225 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	400 ppm 980 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
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Appropriate Engineering Controls

Use process enclosures, local exhaust ventilation or other engineering controls to control airborne exposure. Explosion proof ventilation recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Use safety glasses (ANSI Z87.1 or approved equivalent).

Skin Protection

Hand Protection:

Material: butyl rubber gloves (minimal thickness 0.3 mm)

Break-through time: 480 min

Guideline: EN 374

Additional Information: As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use., For each work-place a suitable glove type has to be selected., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., Gloves should be replaced regularly, especially after extended contact with the product., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and Body Protection:

when handling larger quantities: face mask, rubber boots and rubber apron

Respiratory Protection:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hygiene measures:

Follow the usual good standards of occupational hygiene. Store work clothing separately. Remove contaminated, soaked clothing. Take off clothing and shoes contaminated with product. Clean before reuse. Clean skin thoroughly after work; apply skin cream.

9. Physical and chemical properties

Appearance

Physical state:

liquid

Form:

liquid

Color:

colourless

Odor:

Aromatic

Odor Threshold:

No data available.

pH:

5 - 7 (20 °C) (68 °F)

Freezing point:

approx. 0 °C (estimated)

Boiling Point:

100 °C (1,013 hPa)

Flash Point:

43.89 °C

Evaporation Rate:

No data available.

Flammability (solid, gas):	Not applicable liquid
Explosive limit - upper (%):	Not applicable
Explosive limit - lower (%):	Not applicable
Vapor pressure:	approx. 23 hPa (20 °C)
Vapor density (air=1):	< 1 20 °C 68 °F
Density:	approx. 0.95 g/cm ³ (20 °C) (68 °F)
Relative density:	No data available.
Solubility in Water:	miscible
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable Mixture
Self Ignition Temperature:	The substance or mixture is not classified as pyrophoric.
Decomposition Temperature:	This product is stable under normal storage conditions. 212 °F Thermal decomposition begins above 100 °C.
Kinematic viscosity:	No data available.
Dynamic viscosity:	No data available.
Other information	
Explosive properties:	Vapours may form explosive mixtures with air
Oxidizing properties:	The substance or mixture is not classified as oxidizing.
Peroxides:	The substance or mixture is not classified as organic peroxide.
Self-heating:	The substance or mixture is not classified as self heating.

10. Stability and reactivity

Reactivity:	see section "Possibility of hazardous reactions"
Chemical Stability:	This product is stable under normal storage conditions.
Possibility of hazardous reactions:	Product will not undergo polymerization.
Conditions to avoid:	Protect from frost. Avoid high temperatures and sources of ignition.
Incompatible Materials:	Strong acids and oxidizing agents.
Hazardous Decomposition Products:	None when used as directed.

11. Toxicological information

General information:	no specific test data available
Information on likely routes of exposure	
Inhalation:	Relevant route of exposure. Information on effects are given below.
Skin Contact:	Causes mild skin irritation.
Eye contact:	May irritate eyes.

Ingestion: If handled correctly, not a relevant route of exposure. Information on effects are given below.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: Drowsiness, dizziness, disorientation, vertigo.

Skin Contact: Prolonged skin contact may cause redness, irritation and dry skin.

Eye contact: Eye may become red, tear, and become painful.

Ingestion: No specific symptoms noted.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product: Not classified for acute toxicity based on available data.

Dermal
Product: Not classified for acute toxicity based on available data.

Inhalation
Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Components:
1-Hexadecanaminium,
N,N,N-trimethyl-, No observed adverse effect level (Rat(male and female), pharyngal probe, daily): 300 mg/kg bw/day

Skin Corrosion/Irritation

Product: No data available.

Components:
Propan-2-ol Not irritating
1-Hexadecanaminium, Corrosive.
N,N,N-trimethyl-, OECD 404 (Rabbit): , 4 h

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:
Propan-2-ol Rabbit: Irritating.
1-Hexadecanaminium, Risk of serious damage to eyes.
N,N,N-trimethyl-, Rabbit:

Respiratory or Skin Sensitization

Product: No data available.

Components:

Propan-2-ol	Buehler Test (Guinea Pig): Not a skin sensitizer. literature Not classified for respiratory sensitization
1-Hexadecanaminium, N,N,N-trimethyl-,	Not classified for respiratory sensitization Buehler Test, OECD 406 (Guinea Pig): Not a skin sensitizer.

Carcinogenicity

Product: No data available.

Components:

Propan-2-ol	Not classified
1-Hexadecanaminium, N,N,N-trimethyl-,	Not classified

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

US. National Toxicology Program (NTP) Report on Carcinogens:

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

Propan-2-ol	Ames test: no evidence of mutagenic effects literature
1-Hexadecanaminium, N,N,N-trimethyl-,	Ames test (OECD TG 471): negative gene mutation test (OECD TG 476): negative Chromosomal aberration (OECD TG 473): negative

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Components:

Propan-2-ol	Not classified
1-Hexadecanaminium, N,N,N-trimethyl-,	Not classified

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Propan-2-ol	Category 3 with narcotic effects.
1-Hexadecanaminium, N,N,N-trimethyl-,	Not classified

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Propan-2-ol	Inhalation - vapor: Central nervous system. - Not classified
1-Hexadecanaminium, N,N,N-trimethyl-,	Not classified

Aspiration Hazard

Product: No data available.

Components:

Propan-2-ol Not classified

1-Hexadecanaminium,
N,N,N-trimethyl-, Not classified

Other effects:

Carefully avoid contact with skin and eyes as well as inhalation of product vapours. No tests were performed with this mixture. The properties of this product which are hazardous to health have been calculated as per regulation (EC) No. 1272/2008. See section 2 "Hazards Identification".

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Propan-2-ol LC 50 (Leuciscus idus melanotus, 48 h): > 100 mg/l literature

1-Hexadecanaminium,
N,N,N-trimethyl-, LC 50 (Danio rerio (zebra fish), 96 h): 0.19 - 0.29 mg/l

Aquatic Invertebrates

Product: No data available.

Components:

Propan-2-ol EC 50 (Daphnia magna (Water flea), 24 h): > 1,000 mg/l literature

1-Hexadecanaminium,
N,N,N-trimethyl-, EC 50 (Daphnia magna (Water flea), 48 h): 0.09 mg/l The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

1-Hexadecanaminium,
N,N,N-trimethyl-, NOEC (Fish, 34 d): 0.0322 mg/l This information is derived from evaluation of or a test result for a similar compound (conclusion based on analogy).

Aquatic Invertebrates

Product: No data available.

Components:

1-Hexadecanaminium,
N,N,N-trimethyl-, NOEC (Daphnia magna (Water flea), 21 d): 0.007 mg/l This information is derived from evaluation of or a test result for a similar compound (conclusion based on analogy).

based on analogy).

Toxicity to Aquatic Plants

Product: No data available.

Components:

Propan-2-ol EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 1,000 mg/l literature

1-Hexadecanaminium,
N,N,N-trimethyl-, EC 50 (Pseudokirchneriella subcapitata (green algae), 72 h): 0.08 mg/l The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
EC10 (Pseudokirchneriella subcapitata (green algae), 72 h): 0.047 mg/l The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
NOEC (Pseudokirchneriella subcapitata (green algae), 72 h): 0.04 mg/l The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

Propan-2-ol 99 % literature
95 % (19 d, (DOC; modif. OECD screening test / OECD 301 E)) literature

1-Hexadecanaminium,
N,N,N-trimethyl-, 93.5 % (28 d, OECD 301 B)

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: no evidence for hazardous properties (structure-activity-relationships) (analogy)

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: Not applicable Mixture

Mobility in soil: No data available.

Components:

Propan-2-ol No data available.
1-Hexadecanaminium,
N,N,N-trimethyl-, No data available.

Other adverse effects:

No investigations were carried out with the preparation itself. Prevent substance from entering soil, natural bodies of water and sewer systems. The properties of this product which are characteristics posing a threat to the environment have been calculated as per regulation (EC) No. 1272/2008. See section 2 "Hazards Identification".

13. Disposal considerations

General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal methods:	Waste and empty container must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. Evonik encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste.
Contaminated Packaging:	Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

14. Transport information

Domestic regulation

49 CFR

Not regulated as a dangerous good

Remarks : In the U.S. this material may be classified as combustible liquid. Combustible liquids are not regulated in packages 450 liters or less. This applies for shipments by road and rail only.

International Regulations

IATA-DGR

UN/ID No. : UN 1993

Proper shipping name : Flammable liquid, n.o.s.
(Propan-2-ol)

Class : 3

Packing group : III

Labels : 3

Packing instruction (cargo aircraft) : 366

Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 1993

Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(Propan-2-ol)
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
RCRA HAZARDOUS WASTE NO. D001	100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Serious eye damage or eye irritation

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPCRA (SARA Title III) Section 312 Extremely Hazardous Substances Reporting Quantities (40 CFR 355, Appendix A)

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
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US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Chemical Identity

Propan-2-ol

Reporting threshold for other users

Otherwise used (non-manufacturing/processing)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Propan-2-ol

US. Massachusetts RTK - Substance List

Chemical Identity

Propan-2-ol

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Propan-2-ol

US. Rhode Island RTK

Chemical Identity

Propan-2-ol

16. Other information, including date of preparation or last revision

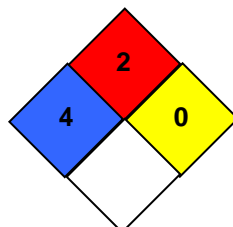
HMIS Hazard ID

Health	*	2
Flammability		2
Physical Hazards		0
PERSONAL PROTECTION		B

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



- Flammability
- Health
- Reactivity
- Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 02/18/2020

Version #: 1.2

Further Information: none

Revision Information Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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