

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: ACRIFIX® CA 0020

Chemical name:
Solution of a peroxide

Other means of identification
None.

Recommended restrictions

Recommended use: Industrial Use Catalyst
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

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

Health Hazards

Skin sensitizer Category 1

Environmental Hazards

Acute hazards to the aquatic environment Category 1

Chronic hazards to the aquatic environment Category 1

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Do not breathe dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response: If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage. IF ON SKIN: Wash with plenty of soap and water.

Disposal: Dispose of contents/ container to an approved waste disposal plant.

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

3. Composition/information on ingredients

Chemical name:
Solution of a peroxide

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
oxydipropyl dibenzoate		27138-31-4	80 - 100%
dibenzoyl peroxide		94-36-0	3.0 - 7.0%

^{*} 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: Pay attention to self-protection. Remove victims from hazardous area. Immediately remove soiled or soaked clothing and remove it to a safe distance. Keep victim warm, in a stabilized position and covered. 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 plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye contact:	In case of contact, immediately flush eyes with plenty of water. Consult a physician if irritation persists.
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., Cool with water spray., Containers can build up pressure if exposed to heat (fire)., Evacuate enclosed and surrounding areas.

Most important symptoms/effects, acute and delayed

Symptoms:	Causes eye irritation. Allergic appearance Health injuries may be delayed.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
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5. Fire-fighting measures

General Fire Hazards:	Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Standard procedure for chemical fires. Keep out unprotected persons. Remove sources of ignition. Also keep emptied containers away from sources of heat and ignition. Cool down container with a water jet from a safe distance. In case of fire, remove the endangered barrels and bring to a safe place, if this can be done safely. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
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Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Dry powder Carbon dioxide Alcohol resistant foam. Water spray jet
Unsuitable extinguishing media:	High volume water jet

Specific hazards arising from the chemical: May be released in case of fire: toxic gases/vapours. 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: Normal measures for preventive fire protection. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against static discharges. In case of fire cool endangered containers with water. Avoid shock and friction. Protect from sunlight, warmth and heat. Use only explosion-proof equipment. Fire fighting must be carried out from a safe distance.

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. Cool with water spray. Containers can build up pressure if exposed to heat (fire). Evacuate enclosed and surrounding areas.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment; see section 8. Handle in accordance with good industrial hygiene and safety practice. Keep out unprotected persons. Assure sufficient ventilation. Avoid contact with the skin and the eyes. 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. Keep away from open flames, hot surfaces and sources of ignition.

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: In case of larger quantities: Remove mechanically (by pumping) Soak up small amounts with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). To be disposed of in compliance with existing regulations.

Environmental Precautions: Do not allow entrance in sewage water, drainage systems, stretches of water, soil. If the product contaminates rivers and lakes or drains inform respective authorities.

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 levels below recommended exposure limits. Refer to the current edition of 'Industrial Ventilation: A Manual of Recommended Practice' published by the American Conference of Government Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Safe handling advice:

Do not breathe vapors. Absolutely avoid contact with the eyes and/or skin. All precautionary measures indicated have to be observed. Normal measures for preventive fire protection. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against static discharges. In case of fire cool endangered containers with water. Avoid shock and friction. Protect from sunlight, warmth and heat. Use only explosion-proof equipment. Fire fighting must be carried out from a safe distance. 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. Use only trained personnel. Remove contaminated clothing and wash it before reuse. Keep locked up. Keep away from heat. Keep away from sparks, flames and other sources of ignition. Use explosion proof equipment. Take precautionary measures against static discharges. Handle and open container with care. Ground and bond containers when transferring material. 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. Do not eat, drink, smoke or chew tobacco around material. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Container hazardous when empty. 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. Keep containers closed when not in use. Use only with adequate ventilation/personal protection. Avoid shock and friction. Provide sufficient ventilation and exhaust at the workplace. In case of insufficient ventilation, wear suitable respiratory equipment.

Contact avoidance measures:

No data available.

Hygiene measures:

Store work clothing separately. Take off all contaminated clothing immediately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking, or snuffing tobacco at work.

Storage

Safe storage conditions:

Keep in a banded area. Avoid impurities. Observe prohibition against storing together! Do not store together with accelerators. Keep in a well-ventilated place. Store cool and dry in the closed original packaging. Keep at temperatures of between 10 °C and 25 °C. Keep away from open flames, hot surfaces and sources of ignition. Protect from heat and exposure to direct sunlight. 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
oxydipropyl dibenzoate	AN ESL	100 µg/m3	US. Texas. Effects Screening Levels (Texas)

			Commission on Environmental Quality), as amended (06 2018)
	ST ESL	1,000 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
dibenzoyl peroxide	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values, as amended (03 2016)
	REL	5 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
	IDLH	1,500 mg/m ³	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	5 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
dibenzoyl peroxide - Particulate.	ST ESL	50 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	AN ESL	5 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
dibenzoyl peroxide	TWA PEL	5 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)

Appropriate Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Refer to the current edition of 'Industrial Ventilation: A Manual of Recommended Practice' published by the American Conference of Government Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

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
Material: nitrile rubber gloves (minimal thickness 0.4 mm)
Break-through time: 480 min
Guideline: EN 374
Additional Information: 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. 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. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and Body Protection:	On handling of larger quantities: face mask, chemical-resistant boots and 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:	Store work clothing separately. Take off all contaminated clothing immediately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking, or snuffing tobacco at work.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	colourless to yellowish, Clear
Odor:	Characteristic
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	Not applicable > SADT
Evaporation Rate:	No data available.
Flammability (solid, gas):	Not applicable
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	1.12 g/cm ³ (20 °C) (68 °F)
Relative density:	No data available.
Solubility in Water:	scarcely soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	not auto-flammable
Decomposition Temperature:	No decomposition if stored and applied as directed. Danger of decomposition under influence of heat.
SADT:	> 60 °C
Kinematic viscosity:	No data available.
Dynamic viscosity:	approx. 140 mPa.s (20 °C, Brookfield) (68 °F)

Other information

Explosive properties:	Vapours may form explosive mixtures with air
Oxidizing properties:	No data available.

Minimum ignition temperature:	not auto-flammable
Self-heating:	The substance or mixture is not classified as self heating.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	No decomposition if stored and applied as directed. Danger of decomposition under influence of heat.
Possibility of hazardous reactions:	Risk of self-accelerating, exothermic decomposition with the development of oxygen on contact with incompatible substances. To avoid thermal decomposition, do not overheat.
Conditions to avoid:	No decomposition if stored and applied as directed. Avoid high temperatures and sources of ignition. Keep away from direct sunlight. Avoid shock and friction.
Incompatible Materials:	Violent decomposition of the peroxide occurs on direct contact with accelerators, e.g. heavy metal salts, tertiary amines, conc. mineral acids and alkali, and reducing agents. Avoid contact with Dirt Rust.
Hazardous Decomposition Products:	None when used as directed. With thermal decomposition, flammable fumes arise which are irritating to the eyes and respiratory organs, predominantly consisting of: Carbon oxides Hydrocarbons.

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:	Prolonged or repeated contact may cause skin sensitization in susceptible individuals.
Eye contact:	Relevant route of exposure. Information on effects are given below.
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:	Relevant route of exposure. Information on effects are given below.
Skin Contact:	This material contains a component which may cause skin sensitization.
Eye contact:	Eye may become red, tear, and become painful.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Acute toxicity estimate: 4,349 mg/kg

Dermal

Product: ATEmix: > 5,000 mg/kg

Inhalation

Product: ATEmix: > 100 mg/l

Repeated dose toxicity

Product: no evidence for hazardous properties

Skin Corrosion/Irritation

Product: Not irritating Calculation method If contact with skin is prolonged and/or frequent, irritations cannot be excluded.

Serious Eye Damage/Eye Irritation

Product: Not irritating May cause skin and eye irritation.

Respiratory or Skin Sensitization

Product: , Calculation method May cause sensitization by skin contact.

Carcinogenicity

Product: An Expert Judgment stated that no classification is necessary based on present knowledge.

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:

dibenzoyl peroxide negative

In vivo

Product: No data available.

Components:

dibenzoyl peroxide negative

Reproductive toxicity

Product: An Expert Judgment stated that no classification is necessary based on present knowledge.

Specific Target Organ Toxicity - Single Exposure

Product: Not classified no evidence for hazardous properties

Specific Target Organ Toxicity - Repeated Exposure

Product: Not classified no specific test data available

Aspiration Hazard

Product: Not applicable

Other effects:

Avoid skin and eye contact and inhalation of product vapours/aerosols. No tests were performed with this mixture.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data is available on the product itself.

Aquatic Invertebrates

Product: No data is available on the product itself.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Components:

dibenzoyl peroxide EC10 (Daphnia magna (Water flea), 21 d): 0.001 mg/l

Toxicity to Aquatic Plants

Product: No data is available on the product itself.

Persistence and Degradability

Biodegradation

Product: no specific test data available

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: no specific test data available

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: No data available.

Mobility in soil: No data available.

Components:

oxydipropyl dibenzoate No data available.
dibenzoyl peroxide No data available.

Other adverse effects: Prevent substance from entering soil, natural bodies of water and sewer systems. No investigations were carried out with the preparation itself.

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority requirements.

Disposal methods: Waste 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. Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of professionally. 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

UN/ID/NA number : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(contains, DIBENZOYL PEROXIDE)
Class : 9
Packing group : III
Labels : 9
ERG Code : 171
Marine pollutant : yes
Remarks : Per 49 CFR 172.101 Appendix B, DOT does state that if a material is not a DOT marine pollutant but meets the definition

of an environmentally hazardous substance (aquatic environment) in IMDG Code 2.9.3, it may be offered for transport and transported as a marine pollutant.

International Regulations

IATA-DGR

UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (contains, DIBENZOYL PEROXIDE)
Class	:	9
Packing group	:	III
Labels	:	9MI
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964
Environmentally hazardous	:	yes

IMDG-Code

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains, DIBENZOYL PEROXIDE)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

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):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Respiratory or Skin Sensitization

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

None present or none present in regulated quantities.

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

Chemical Identity

Threshold Planning Quantity

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

dibenzoyl peroxide

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

dibenzoyl peroxide

US. Massachusetts RTK - Substance List

Chemical Identity

dibenzoyl peroxide

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

dibenzoyl peroxide

US. Rhode Island RTK

Chemical Identity

dibenzoyl peroxide

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

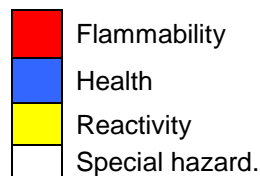
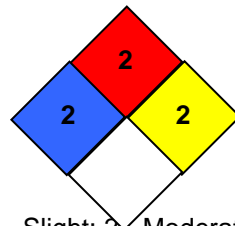
HMIS Hazard ID

Health	2
Flammability	2
Physical Hazards	2
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



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

Issue Date: 02/18/2020

Version #: 1.1

Further Information: none

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

Disclaimer:

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