

Material Safety Data Sheet

Status: 06/18/2012

Version: 7.1



ACRIFIX® CA 0020

Page 1 of 9

1. Chemical Product and Company Identification

ACRIFIX® CA 0020

Supplier:

Evonik CYRO LLC
299 Jefferson Road
Parsippany, NJ 07054-0677
+1-973-929-8291

Product Information Number 1-207-490-4242
24 Hour Emergency Number, CHEMTREC 1-800-424-9300

(TM) indicates trademark

Product Use: catalyst for polymerization adhesive, Industrial use

2. Composition/Information on Ingredients

This material is classified as hazardous under OSHA regulations.

<u>Ingredients</u>	<u>CAS Reg. No.</u>	<u>Weight %</u>
oxydipropyl dibenzoate	27138-31-4	70 - 90
dibenzoyl peroxide; benzoyl peroxide	94-36-0	3 - 7

NJTSR # 56705700001-6904P

See Section 8, Exposure Controls/Personal Protection

3. Hazards Identification

Emergency Overview

Color: colourless to yellowish, clear
Appearance: liquid
Odor: characteristic

Danger! Organic Peroxide.

May cause fire.

May cause allergic skin reaction.

May cause eye irritation.

Container may explode when heated.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Primary Routes of Exposure

Skin contact
Eye contact

Material Safety Data Sheet

Status: 06/18/2012

Version: 7.1



ACRIFIX® CA 0020

Page 2 of 9

Potential Health Effects

Inhalation

No hazard expected in normal use.

Eye Contact

Direct contact with material can cause the following:

- slight irritation

Skin Contact

Direct contact with material can cause the following:

- slight irritation
- sensitization
- allergic dermatitis

Ingestion

Swallowing of material can cause the following:

- dizziness
- headache
- nausea
- vomiting

Potential Environmental Effects

See SECTION 12, Ecological Information

4. First Aid Measures

First Aid Procedures

Inhalation

Remove to fresh air. Obtain medical attention if irritation develops.

Eye Contact

In case of contact, immediately flush eyes with plenty of water. Consult a physician if irritation persists.

Skin Contact

Immediately wash skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.

Ingestion

Only induce vomiting if directed by a physician. Get medical attention. Never give anything by mouth to an unconscious person.

Note to Physician

Causes eye irritation. , Skin Sensitisation, Allergic appearance
Treat symptomatically.

5. Fire-Fighting Measures

Flash point	not applicable
Ignition temperature	not spontaneously flammable
Lower explosion limit	not available
Upper explosion limit	not available
OSHA Flammability Classification	none

Material Safety Data Sheet

Status: 06/18/2012

Version: 7.1



ACRIFIX® CA 0020

Page 3 of 9

Unusual Hazards

May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition. -

Extinguishing Media

Use the following extinguishing media when fighting fires involving this material:
dry chemical - carbon dioxide - alcohol-resistant foam

Fire Fighting Procedures

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool with water spray.

6. Accidental Release Measures

Procedures

Remove sources of ignition and ventilate area. Absorb spill with inert material and place in a chemical waste container. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. Use personal protective equipment. See Material Safety Data Sheet section 8, Exposure Controls/Personal Protection.

7. Handling and Storage

Handling

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use with adequate ventilation. 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.

Handling

Do not return residues to the storage containers.

Storage

Store in a cool, dry place. Keep container closed when not in use. Do not store together with accelerators.

8. Exposure Controls/Personal Protection

Exposure Limit Information

DIBENZOYL PEROXIDE

(CAS Number 94-36-0)

Carcinogen designation(s) USA: IARC-3; TLV-A4

Occupational Exposure Values :

Remark(s):

Occupational Exposure Values	Remark(s)
ACGIH TLV-TWA	5 mg/m3
ACGIH TLV-STEL	not established
OSHA PEL-TWA	5 mg/m3
OSHA PEL-STEL	not established
OEL-TWA (Alberta)	5 mg/m3
OEL-STEL (Alberta)	not established
OEL-TWA (British Columbia)	5 mg/m3
OEL-STEL (British Columbia)	not established

Material Safety Data Sheet

Status: 06/18/2012

Version: 7.1



ACRIFIX® CA 0020

Page 4 of 9

OEL-TWA (Ontario)		5 mg/m3	
OEL-STEL (Ontario)			not established
OEL-TWA (Quebec)		5 mg/m3	
OEL-STEL (Quebec)			not established
OEL-TWA (Mexico)		5 mg/m3	
OEL-STEL (Mexico)			not established

OXYDIPROPYL DIBENZOATE

(CAS Number 27138-31-4)

Occupational Exposure Values :

Remark(s):

ACGIH TLV-TWA			not established
ACGIH TLV-STEL			not established
OSHA PEL-TWA			not established
OSHA PEL-STEL			not established
NIOSH REL-TWA			not established
NIOSH REL-STEL			not established
OEL-TWA (North Carolina)			not established
OEL-STEL (North Carolina)			not established
OEL-TWA (Alberta)			not established
OEL-STEL (Alberta)			not established
OEL-TWA (British Columbia)			not established
OEL-STEL (British Columbia)			not established
OEL-TWA (Ontario)			not established
OEL-STEL (Ontario)			not established
OEL-TWA (Quebec)			not established
OEL-STEL (Quebec)			not established
OEL-TWA (Mexico)			not established
OEL-STEL (Mexico)			not established

Engineering Controls (Ventilation)

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

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.

Eye Protection

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

Skin Protection

On handling of larger quantities: face mask, chemical-resistant boots and apron

Material Safety Data Sheet

Status: 06/18/2012

Version: 7.1



ACRIFIX® CA 0020

Page 5 of 9

Hand Protection

The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection:

nitrile rubber gloves

Chemical-resistant gloves should be worn whenever this material is handled.

Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

For each work-place a suitable glove type has to be selected.

Other Protective Equipment

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.

9. Physical and Chemical Properties

Appearance	colourless to yellowish, clear
Physical state	liquid
Odor	characteristic
Flash point	not applicable
pH-value	not available
Viscosity (dynamic)	ca. 180 mPa.s at 20 °C / (Brookfield)
Specific gravity (water = 1)	1.12 g/cm ³ at 20 °C / 68 °F
Vapor density (air = 1)	not available
Vapor pressure	not available
Solidification Point	not available
Boiling Point	not available
Solubility in water	scarcely soluble
n-Octanol/water partition coefficient	not available
Evaporation rate	not available
Odor threshold	not available
Further information	none

See Section 5, Fire Fighting Measures

10. Stability and Reactivity

Stability

Danger of decomposition under influence of heat. SADT (= Self Accelerating Decomposition Temperature) of dibenzoylperoxide: 60 °C (140 °F)

Conditions To Avoid

Avoid high temperatures and sources of ignition. Ultraviolet light.

Material Safety Data Sheet

Status: 06/18/2012

Version: 7.1



ACRIFIX® CA 0020

Page 6 of 9

Incompatibility With Other 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.

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

Hazardous Polymerization

Risk of self-accelerating, exothermic decomposition with the development of oxygen on contact with incompatible substances.

11. Toxicological Information

Acute Oral Toxicity

LD50 rat > 5,000 mg/kg

Related to substance: dibenzoyl peroxide

LD50 rat > 5,000 mg/kg

Related to substance: Oxidipropyldibenzoate

Irritant Effect on the Skin

Contact with skin may cause irritations.

Related to substance: product

Irritant Effect on the Eyes

Contact with the eyes may cause irritation.

Related to substance: product

Sensitization

May cause sensitisation by skin contact.

Related to substance: dibenzoyl peroxide

Further Information on Toxicology

Avoid skin and eye contact and inhalation of product vapours/aerosols.

12. Ecological Information

Information on Elimination (Persistence and Degradability)

Bioaccumulation

Ecotoxicological Effect

Fish Toxicity

LC50 *Poecilia reticulata*, 96 h 2 mg/l

Related to substance: dibenzoyl peroxide

Daphnia Toxicity

EC50 *Daphnia magna*, 48 h 2.9 mg/l

Related to substance: dibenzoyl peroxide

Bacteria Toxicity

EC50 35 mg/l

Related to substance: dibenzoyl peroxide

EC50 *Pseudomonas putida* > 10 mg/l

Related to substance: Oxidipropyldibenzoate

Material Safety Data Sheet

Status: 06/18/2012

Version: 7.1



ACRIFIX® CA 0020

Page 7 of 9

Further Information on Ecology

Prevent substance from entering soil, natural bodies of water and sewer systems.

13. Disposal Considerations

Procedures

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. CYRO encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste.

14. Transport Information

US DOT Hazard Classification

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical Name	(contains Oxidipropyldibenzoat)
Hazard Class	9
ID/UN Number	3082
Packing Group	III

Canadian TDG Classification

Refer to the classification US DOT

Shipment by sea IMDG/GGVSee

UN number	3082
Class	9
EmS	F-A, S-F
Marine pollutant	Yes
Packaging group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Oxidipropyldibenzoat)
Hazardous constituent	Oxidipropyldibenzoat

Air transport ICAO/IATA

UN number	3082
Class	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Oxidipropyldibenzoat)

15. Regulatory Information

INVENTORY INFORMATION

REACH (EU)	preregistered, registered or exempted
TSCA (USA)	listed or exempted
DSL (CDN)	listed or exempted
AICS (AUS)	listed or exempted
METI (J)	listed or exempted
ECL (KOR)	listed or exempted
PICCS (RP)	listed or exempted

Material Safety Data Sheet

Status: 06/18/2012

Version: 7.1



ACRIFIX® CA 0020

Page 8 of 9

IECSC (CN) listed or exempted

US FEDERAL REGULATORY INFORMATION

Component / CASRN	TPQ [lbs]	CERCLA RQ [lbs] (40CFR302.4)	SARA 302 List of EHS	SARA 313 (40CFR372)	TSCA 12b
dibenzoyl peroxide; benzoyl peroxide / 94-36-0	NONE	NONE	NO	YES	NO

COMPONENT CLASSIFICATION UNDER CLEAN AIR ACT SECTION 112

Component / CASRN	Weight %	HAP	EHAP
NONE			

PRODUCT CLASSIFICATION UNDER SECTION 311/312 OF SARA (40CFR370)

ACUTE, CHRONIC, REACTIVE,

US STATE REGULATORY INFORMATION

Component / CASRN	New Jersey RTK	Pennsylvania RTK	Massachusetts RTK	California Proposition 65 Cancer	California Proposition 65 Reproductive
dibenzoyl peroxide; benzoyl peroxide / 94-36-0	YES	YES	YES	NO	NO
oxydipropyl dibenzoate / 27138-31-4	NO	NO	NO	NO	NO

CANADIAN REGULATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the MSDS contains all information required by the Controlled Products Regulations.

This is a controlled product.

WHMIS: D2B, C, B3

Component / CASRN	NPRI
dibenzoyl peroxide; benzoyl peroxide / 94-36-0	YES

16. Other Information

Recommended restriction(s) for use

None known.

Material Safety Data Sheet

Status: 06/18/2012

Version: 7.1



ACRIFIX® CA 0020

Page 9 of 9

	Health	Flammability	Physical Hazard
HMIS-Ratings	1*	2	2
NFPA-Ratings	1	2	2

HMIS Hazard Ratings

4 = severe
3 = serious
2 = moderate
1 = slight
0 = minimal
N = no rating for powders
* = chronic health hazard

NFPA Hazard Ratings

4 = extreme
3 = high
2 = moderate
1 = slight
0 = insignificant
N = no rating for powders

This MSDS was prepared in accordance with ANSI Z400.1-1998.

Places marked by || have been amended from the last version.

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