

Material Safety Data Sheet

Status: 11/12/2008

Version: 4.



ACRIFIX™ CA 0020

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1. Chemical Product and Company Identification

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Supplier:

Evonik CYRO LLC
379 Interpace Parkway
Parsippany, NJ 07054-0677

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

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>
diisobutyl phthalate	84-69-5	60 - 100
benzoyl peroxide	94-36-0	5 - 10

NJTSR # 56705700001-6904P

See Section 8, Exposure Controls/Personal Protection

3. Hazards Identification

Emergency Overview

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

May cause fire.
May cause allergic skin reaction.
May cause eye irritation.
May cause adverse reproductive effects.

Primary Routes of Exposure

Skin contact
Eye contact

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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.

5. Fire-Fighting Measures

Flash point not applicable

Autoignition Temperature not spontaneously flammable

Lower explosion limit not available

Upper explosion limit not available

OSHA Flammability Classification none

Extinguishing Media

Use the following extinguishing media when fighting fires involving this material:

foam - dry chemical - carbon dioxide

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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

BENZOYL PEROXIDE

(CAS No. 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/m ³
ACGIH TLV-STEL	not established
OSHA PEL-TWA	5 mg/m ³
OSHA PEL-STEL	not established
OEL-TWA (Alberta)	5 mg/m ³
OEL-STEL (Alberta)	not established
OEL-TWA (British Columbia)	5 mg/m ³
OEL-STEL (British Columbia)	not established
OEL-TWA (Ontario)	5 mg/m ³
OEL-STEL (Ontario)	not established
OEL-TWA (Quebec)	5 mg/m ³
OEL-STEL (Quebec)	not established
OEL-TWA (Mexico)	5 mg/m ³

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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

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	colorless to yellowish, clear
Physical state	liquid
Odor	characteristic
Flash point	not applicable
pH-value	4 - 5 at 20 °C / 68 °F
Viscosity (dynamic)	approx. 52 mPa.s at 20 °C / 68 °F (Brookfield)
Specific gravity (water = 1)	1.04 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	log Pow 4.11 (measured) (diisobutyl phthalate)
Evaporation rate	> 1

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Odor threshold not available

Further information none

See Section 5, Fire Fighting Measures

10. Stability and Reactivity

Stability

SADT (= Self Accelerating Decomposition Temperature) of dibenzoylperoxide: 60 °C (140 °F)

Conditions To Avoid

Avoid elevated temperatures and ultraviolet light.

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.

Hazardous Polymerization

Product will not undergo polymerization.

11. Toxicological Information

Acute Oral Toxicity

LD50 rat > 2,000 mg/kg

Properties of components in summary.

Related to substance: product

Irritant Effect on the Skin

not irritating

Irritant Effect on the Eyes

Contact with the eyes may cause irritation.

Sensitization

guinea pig, Bühler-test sensitizing

Related to substance: dibenzoyl peroxide

Reprotoxicity / Teratogenicity

Indications to teratogenic effects (Repr. Cat. 2).

Indications to reprotoxic effects (Repr. Cat. 3).

Related to substance: diisobutyl phthalate

Further Information on Toxicology

Avoid contact with the skin and eyes and inhalation of the product vapors.

12. Ecological Information

Information on Elimination (Persistence and Degradability)

Biodegradability

biodegradable

(analogy)

Related to substance: product

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Ecotoxicological Effect

Fish Toxicity

LC50 Cyprinus carpio, 96 h 3 mg/l

Related to substance: diisobutyl phthalate

LC50 Poecilia reticulata, 96 h 2.2 mg/l

Related to substance: dibenzoyl peroxide

Daphnia Toxicity

EC50 Daphnia magna, DIN 38412 section 11, 24 h tested with emulsifier 7.4 mg/l

Related to substance: diisobutyl phthalate

EC50 Daphnia magna, 96 h 3.7 mg/l

Related to substance: dibenzoyl peroxide

Algae Toxicity

EC50 Scenedesmus subspicatus, 72 h 2.2 mg/l

Related to substance: diisobutyl phthalate

Further Information on Ecology

Do not allow to enter soil, waterways or waste water

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

Further information

Not subject to the regulations on dangerous goods.

15. Regulatory Information

INVENTORY INFORMATION

EINECS (EU)	listed 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
IECS (VR)	listed or exempted

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US FEDERAL REGULATORY INFORMATION

Component / CASRN	TPQ [lbs]	CERCLA RQ [lbs] (40CFR302.4)	SARA 302 List of EHS	SARA 313 (40CFR372)	TSCA 12b
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
benzoyl peroxide / 94-36-0	YES	YES	YES	NO	NO
diisobutyl phthalate / 84-69-5	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
benzoyl peroxide / 94-36-0	YES

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16. Other Information

	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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