

ACRIFIX® Catalyst 20 - Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

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Material Name: ACRIFIX® Catalyst 20

Recommended Uses: Catalyst for polymerization adhesive for PLEXIGLAS®

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

Classified as hazardous according to the criteria of NOHSC and as Dangerous Goods according to the Australian Dangerous Goods Code.

May cause sensitisation by skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Dibenzoylperoxide in phthalic acid ester

Hazardous Ingredients

Component	CAS Number	Hazard symbol(s) / R-phrases(s)	Content
diisobutyl phthalate	84-69-5	see chapter 8	60,0 - 100,0 %
dibenzoyl peroxide; benzoyl peroxide	94-36-0	E, Xi 2-36-43	3,0 - 7,0 %

4. FIRST AID MEASURES

General information	Remove contaminated, soaked clothing.
After inhalation	Move subject to fresh air and keep him calm. In case of complaints get medical treatment.
After contact with eyes	Flush eyes thoroughly with a large amount of water and consult a physician.
After contact with skin	Wash off with water and soap. Consult a physician if irritation persists.
After Ingestion	Rinse out mouth and give plenty of water to drink. Obtain medical advice.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media Foam, dry chemical, carbon dioxide

Unsuitable extinguishing media for safety reasons Water
Special protective equipment for fire fighting Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Observe all relevant local and international regulations.

Precautionary measures related to people

Take care for adequate ventilation. Use personal protective clothing. Keep away sources of ignition. Use breathing apparatus if exposed to vapours/dust/mist/aerosol.

Environmental protective measures

Prevent product from getting into drains/surface water/groundwater.

Methods of cleaning / adsorption

Larger quantities: Take up mechanically (by pumping). Smaller quantities and/or residues: Contain with absorbent material (e.g. sand, diatomaceous earth, acid absorbent, universal absorbent or sawdust). Dispose of in accordance with regulations.

7. HANDLING AND STORAGE

Handling

Instructions on safe handling

Do not return residues to the storage containers.

Information on fire and explosion protection

Keep away from sources of ignition --- No smoking. Take precautionary measures against static discharges In the event of fire, cool the endangered containers with water.

Storage

Requirements for storage areas and containers

Store in temperature range between 15 °C and 30 °C. Keep container tightly closed and store in a well ventilated area. Storage: dry.

Advice on storage compatibility

Do not store together with accelerators.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure controls

For monitoring procedures refer to for instance "Empfohlene Analysenverfahren für Arbeitsplatzmessungen", Schriftenreihe der Bundesanstalt für Arbeitsschutz and "NIOSH Manual of Analytical Methods", National Institute for Occupational Safety and Health, National Occupational and Safety Commission (Australia).

Personal protective equipment

General protective measures

Do not inhale vapours. Avoid contact with eyes and skin.

Hygiene measures

Store work clothing separately. Remove soiled or soaked clothing immediately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

Breathing apparatus in case of high concentrations, short term: filter appliance, filter A

Hand protection

Natural rubber gloves, Breakthrough time 480 min (EN 374)

In practice, due to variable exposure conditions, this information can only be an aid to orientation for the selection of a suitable chemical protection glove. In particular, this information does not substitute suitability tests by the end user.

General information

Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

Eye protection

Tightly fitting goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: Liquid
Colour: Colourless to yellowish, clear
Odour: Characteristic

Data relevant to safety

Changes in physical state

Solidification Point: Not determined
Boiling Point: Not determined
Flash point: Not applicable
Ignition temperature: Not determined
Auto ignition: Not spontaneously flammable
Lower explosion limit: Not determined
Upper explosion limit: Not determined
Vapour pressure: Not determined
Density: 1,04 g/cm³ at 20 °C
Relative vapour density (related to air): Not determined
Solubility in water; Scarcely soluble
Fat solubility: Not determined
pH-value: 4 - 5 at 20 °C
n-Octanol/water partition coefficient: log Pow 4,11 (measured) (diisobutyl phthalate)
Viscosity (dynamic): approx. 52 mPa.s at 20 °C (Brookfield)
Further information: none

10. STABILITY AND REACTIVITY

Thermal decomposition: approx. 60 ° SADT (dibenzoyl peroxide)

Hazardous reactions: 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.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity Practically non-toxic if swallowed 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.

Sensitisation Guinea pig, Bühler-test sensitising
Related to substance: dibenzoyl peroxide

General information Avoid contact with the skin and eyes and inhalation of the product vapours.

12. ECOLOGICAL INFORMATION

Information on elimination (persistence and degradability)

Biodegradability Biodegradable (analogy)
Related to substance: product

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
Daphnia toxicity	Related to substance: dibenzoyl peroxide EC50 Daphnia magna, DIN 38412 section 11, 24 h 7,4 mg/l tested with emulsifier
	Related to substance: diisobutyl phthalate EC50 Daphnia magna, 96 h 3,7 mg/l
Algae toxicity	Related to substance: dibenzoyl peroxide EC50 Scenedesmus subspicatus, 72 h 2,2 mg/l
General information	Related to substance: diisobutyl phthalate Do not allow to enter soil, waterways or waste water

13. DISPOSAL CONSIDERATIONS

Product	Waste is hazardous. It must be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.
Uncleaned packaging	Contaminated packaging should be emptied optimally and after appropriate professional cleansing may be taken for reuse. Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of professionally.
Code of waste EWC	07 02 08 waste from the manufacture, formulation, supply and use (MFSU) of plastics, synthetic rubber and man-made fibers - other still bottoms and reaction residues. Always check the given waste codes according to the actual conditions of manufacturing, formulation or use in your facilities.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DI-ISOBUTYL PHTHALATE)

UN No: 3082	D.G.Class: 9	Packaging Group: III
HAZCHEM:	Sub. Risk: None allocated	SUSDP: None allocated
G.T.EPG: None allocated	Spec.EPG: None allocated	CAS No.: None allocated

Air transport ICAO/IATA

UN number 3082

Class 9

Packaging group III

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DI-ISO-BUTYL PHTHALATE)

15. REGULATORY INFORMATION

Labeling in accordance with NOHSC: 2012 (1994) Contains: dibenzoyl peroxide; benzoyl peroxide

Hazard symbol(s)

Xi Irritant

R-phrases(s)

43 May cause sensitisation by skin contact.

S-phrases(s)

3/7 Keep container tightly closed in a cool place.

14 Keep away from dirt, rust, chemicals, concentrated alkalis, concentrated acids, accelerators (e.g. heavy metal salts and amines).

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Status of Registration

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

Occupational restrictions

Not for juveniles.
Not for pregnant woman and nursing mothers (EC Directive 92/85/EEC).

16. OTHER INFORMATION

Miscellaneous information none

R-phrases of relevance from Section 3

2 Risk of explosion by shock, friction, fire or other sources of ignition.
36 Irritating to eyes.
43 May cause sensitisation by skin contact.

References

relevant manuals and publications
own examinations
own toxicological and ecotoxicological studies
toxicological and ecotoxicological studies of other manufacturers
SIAR
OECD-SIDS
RTK public files

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