

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 6064 BP-Hardener (PEROXAN BP-Paste 50 PF rot)

Print date: 02.09.2015

Product code: 86064

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SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

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1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture

Hardener (Crosslinker)

1.3. Details of the supplier of the safety data sheet

Company name:	DINOL GmbH	
Street:	Pyrmonter Strasse 76	
Place:	D-32676 Luegde	
Telephone:	+49 (0) 5281 9829 80	Telefax: +49 (0) 5281 9829 860
Responsible Department:	msds@dinol.com	

1.4. Emergency telephone number: Giftnotruf Berlin: +49 30 30686 790 (Consultation in German and English)

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
Regulation (EC) No. 1272/2008

Hazard categories:

Organic peroxide: Org. Perox. EF

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Heating may cause a fire.

Causes serious eye irritation.

May cause an allergic skin reaction.

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

2.2. Label elements
Regulation (EC) No. 1272/2008
Hazardous components which must be listed on the label

Dibenzoyl peroxide

Signal word: Warning

Pictograms:

Hazard statements

H242	Heating may cause a fire.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

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	smoking.
P220	Keep/Store away from Alkalis (alkalis). Strong acid Heavy metals. amines..
P234	Keep only in original container.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410	Protect from sunlight.
P411+P235	Store at temperatures not exceeding +30 °C/+86 °F. Keep cool.
P420	Store away from other materials.
P501	Dispose of waste according to applicable legislation.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
94-36-0	Dibenzoyl peroxide	40-50 %
	202-327-6	617-008-00-0
		01-2119511472-50
	Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 10); H241 H319 H317 H400	
670241-72-2	isononyl benzoate	10-20 %
	447-010-5	01-0000018876-55
	Aquatic Chronic 2; H411	
557-05-1	Zinc distearate	2,5-5,0 %
	209-151-9	
9038-95-3	polyalkylene glykolmonobutylether	2,5-5,0 %
	Acute Tox. 4; H302	

Full text of H and EUH statements: see section 16.

Further Information

Note: Each entry in the column EC number that begins with the number "9" is - until the publication the official registration number - one specified by ECHA provisional number for the substance. The above-mentioned substance(s) in this product is (are) identified by CAS number and indeed in Countries that are not subject to the REACH Regulation, or in a regulation which is not in accordance with new naming convention for hydrocarbons have been updated.

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

First aider: Pay attention to self-protection!

After inhalation

Remove casualty to fresh air and keep warm and at rest.

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In all cases of doubt, or when symptoms persist, seek medical advice.
If unconscious place in recovery position and seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.
Change contaminated clothing.

After contact with eyes

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.

After ingestion

IF SWALLOWED: Call a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water fog.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:
Carbon dioxide.
Carbon monoxide.

5.3. Advice for firefighters

Do not inhale explosion and combustion gases.
Use water spray jet to protect personnel and to cool endangered containers.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.
Use appropriate respiratory protection.
Remove all sources of ignition.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Provide adequate ventilation.
Take up mechanically.
Do not dry up the product.
Dispose according to legislation.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Advice on safe handling

- Keep away from heat. Protect against direct sunlight.
- If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
- Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
- When using do not eat, drink or smoke.
- Wash hands before breaks and after work.
- Handle and open container with care.

Advice on protection against fire and explosion

- Keep away from heat.
- Keep away from sources of ignition. - No smoking.
- Take precautionary measures against static discharges.
- Handle with care - avoid bumps, friction and impact.
- Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
- Use only non-sparking tools.
- Vapours can form explosive mixtures with air.
- Wear anti-static footwear and clothing
- In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

- Keep only in the original container in a cool, well-ventilated place.
- Only use containers specifically approved for the substance/product.

Advice on storage compatibility

- Do not store together with: Heavy metals. amines.
- Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

- Keep container tightly closed.
- Keep away from heat. Protect against direct sunlight.
- storage temperature: +5 ... +30 °C

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
94-36-0	Dibenzoyl peroxide	-	5		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
557-05-1	Zinc distearate, respirable dust	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls

Protective and hygiene measures

- Keep away from food, drink and animal feedingstuffs.
- Remove contaminated, saturated clothing immediately.
- Wash hands before breaks and after work.
- Avoid contact with skin and eyes.

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When using do not eat, drink or smoke.
Protect skin by using skin protective cream.
Wash hands before breaks and after work.

Eye/face protection

Eye glasses with side protection (DIN EN 166)

Hand protection

Tested protective gloves must be worn (DIN EN 374):
Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber), FKM (fluoro rubber)
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Protective gloves have to be replaced at the first sign of deterioration.
Protect skin by using skin protective cream.

Skin protection

Protective clothing

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.
gas filtering equipment (EN 141), Filter material/medium: A2

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Paste
Colour:	red
Odour:	characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point: not applicable

Initial boiling point and boiling range: not applicable

Flash point: not determined DIN 53213

Flammability

Solid: not applicable

Gas: not applicable

Explosive properties

not explosive.

Lower explosion limits: not determined

Upper explosion limits: not determined

Auto-ignition temperature

Solid: not determined

Gas: not determined

Decomposition temperature: SADT (°C): 50 °C

Oxidizing properties

Oxidizing

Vapour pressure: not determined

Density (at 20 °C): 1,15 g/cm³

Water solubility: not determined

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Solubility in other solvents

not determined

Partition coefficient:

not determined

Viscosity / dynamic:
(at 20 °C)

15000 - 45000 mPa·s

Viscosity / kinematic:

not determined

Vapour density:

not determined

Evaporation rate:

not determined

9.2. Other information

Solid content:

50,00 %

Available oxygen content (%): 3,2-3,4 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

Thermal decomposition, Danger of spontaneous combustion

10.3. Possibility of hazardous reactions

Decomposition takes place from temperatures above: 50°C

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Decomposition with: Reducing agent. Heavy metals. Alkalis (alkalis). amines. Strong acid

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (dermal) 48,6 mg/kg; ATE (inhalative vapour) 4,20 mg/l

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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
94-36-0	Dibenzoyl peroxide				
	oral	LD50	5000 mg/kg	Rat	
	dermal	LD50	24,3 mg/kg	Rat	
670241-72-2	isononyl benzoate				
	oral	LD50	>2500 mg/kg	Rat	
	dermal	LD50	>2000 mg/kg	Rat	
	inhalative (4 h) aerosol	LC50	>5,22 mg/l	Rat	
9038-95-3	polyalkylene glykolmonobutylether				
	oral	LD50	5000 mg/kg	Rat	GESTIS
	dermal	LD50	14900 mg/kg	Rabbit	GESTIS
	inhalative (4 h) vapour	LC50	0,147 mg/l	Rat	GESTIS

Irritation and corrosivity

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (Dibenzoyl peroxide)

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information
12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
94-36-0	Dibenzoyl peroxide					
	Acute fish toxicity	LC50	0,0602 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	0,0711 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	0,110 mg/l	48 h	Daphnia magna (Big water flea)	
670241-72-2	isononyl benzoate					
	Acute fish toxicity	LC50	>1,23 mg/l	96 h	Cyprinus carpio (Common Carp)	
	Acute crustacea toxicity	EC50	>2,2 mg/l	48 h	Daphnia magna (Big water flea)	

12.2. Persistence and degradability

There are no data available on the mixture itself.

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12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
94-36-0	Dibenzoyl peroxide	3,46

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

There are no data available on the mixture itself.

Further information

There are no data available on the preparation/mixture itself.

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation. Do not mix with other wastes.

List of proposed waste codes/waste designations in accordance with EWC:

Waste disposal number of waste from residues/unused products

160903 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; oxidising substances; peroxides, for example hydrogen peroxide
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances
Classified as hazardous waste.

Contaminated packaging

Do not allow to enter into surface water or drains.

Remove according to the regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

UN 3108

14.2. UN proper shipping name:

ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide), ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es):

5.2

14.4. Packing group:

-

Hazard label:

5.2



Classification code:

P1

Special Provisions:

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Limited quantity: 500 g
 Transport category: 2
 Tunnel restriction code: D

Other applicable information (land transport)

E0

Marine transport (IMDG)

14.1. UN number: UN 3108
14.2. UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide), MARINE POLLUTANT
14.3. Transport hazard class(es): 5.2
14.4. Packing group: -
 Hazard label: 5.2



Marine pollutant: yes
 Special Provisions: 122, 274
 Limited quantity: 500 g
 EmS: F-J, S-R

Other applicable information (marine transport)

E0

Air transport (ICAO)

14.1. UN number: UN 3108
14.2. UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide)
14.3. Transport hazard class(es): 5.2
14.4. Packing group: -
 Hazard label: 5.2



Special Provisions: A20 A802
 Limited quantity Passenger: Forbidden
 IATA-packing instructions - Passenger: 570
 IATA-max. quantity - Passenger: 10 kg
 IATA-packing instructions - Cargo: 570
 IATA-max. quantity - Cargo: 25 kg

Other applicable information (air transport)

E0

Passenger-LQ: Forbidden

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: Dibenzoyl peroxide

14.6. Special precautions for user

Warning: Organic peroxides

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Additional information

Observe in addition any national regulations!

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 3,8,9,10.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H241	Heating may cause a fire or explosion.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)