



## SAFETY DATA SHEET

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

<b>Product label name</b>	Dibenzoyl peroxide, paste, 50% with Dimethyl Phthalate		
<b>Supplier</b>	International Applications Limited 18 Wildmere Road Wildmere Industrial Estate Banbury Oxfordshire OX16 3JU		
<b>Emergency telephone</b>	+44 (0) 1295 274004	<b>EC DIRECTIVE 1907/2006 (EC) No 1272/2008</b>	
<b>Intended use</b>	Curing agent.		
<b>Date of first issue</b>	05/12/2002	<b>Date of last issue / Revision #</b> 01/01/2014/Rev 10.6	

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a preparation in conformance to <b>EC directive 67/548/EEC or 1999/45/EC</b>			
Information on hazardous ingredients			
<b>Chemical description</b>   Dibenzoyl peroxide, paste. 50% in Dimethyl phthalate			
<b>Composition / information on ingredients</b>			
<b>Number</b>	<b>%w/w</b>	<b>CAS-number</b>	<b>Chemical name</b>
1	45-52%	94-36-0	Dibenzoyl peroxide
2	25/35%	131-11-3	Dimethyl phthalate
	<b>ENINECS</b>	<b>Symbol(s)</b>	<b>Risk-phrase(s)</b>
1	202-327-6	EXi	R7 R36 R43
2	205-011-6		none
<b>Other information</b>			
Balance: non-hazardous ingredients.			

3. HAZARDS IDENTIFICATION , **May cause fire. Irritating to eyes. May cause sensitization by skin contact.**

## 4. FIRST AID MEASURES

<b>Symptoms and effects</b>
Irritating to eyes. May cause sensitization by skin contact.
<b>First aid</b>
<b>General</b>
In all cases of doubt, or when symptoms persist, seek medical attention.
<b>Inhalation</b>
Move to fresh air, rest, half-upright position, loosen clothing.
<b>Skin</b>
Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Seek medical advice if irritation develops. Launder clothes before reuse.
<b>Eye</b>
Rinse immediately and as long as possible with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
<b>Ingestion</b>
Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately!
<b>Advice to physician</b>



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Symptomatic treatment is advised.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

Carbon dioxide, dry chemical powder, water, foam.

**Unsuitable extinguishing media**

halones.

**Special exposure hazards**

**CAUTION:** reignition may occur. Decomposition under effect of heating. If involved in a fire, it will support combustion. In cases of fire and/or explosion do not breathe fumes.

**Hazardous decomposition/****combustion products**

Carbon dioxide, Carbon monoxide, Benzoic acid, Benzene.

**Protective equipment**

Wear suitable protective clothing. Wear self-contained breathing apparatus.

**Other information**

Extinguish a small fire with powder or carbon dioxide then apply water to prevent re-ignition. Cool closed containers with water

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Avoid contact with skin and eyes. For personal protection, see Section 8.

**Environmental precautions**

Do not allow to enter drains or watercourses.

**Methods for cleaning up**

Collect as much as possible in a clean container for (preferable) reuse or disposal. Cover the remainder with inert absorbent (e.g. vermiculite) for disposal. The waste should NOT be confined.

**Other information**

**CAUTION:** reignition may occur.

## 7. HANDLING AND STORAGE

**Handling**

Never weigh out in the storage room. When using do not eat, drink or smoke. Do not breathe fumes/vapour. Handle in well ventilated areas. Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps). Keep product and emptied container away from heat and sources of ignition. Confinement must be avoided. Do not allow to dry out. Avoid shock and friction. Avoid contact with skin and eyes.

**Fire and explosion prevention**

Use explosion protected equipment. Keep away from sources of ignition ... No smoking.

**Storage requirements**

Store in accordance with local/national regulations. Keep away from food, drink and animal feedingstuffs. Store in a dry well ventilated place away from sources of heat and direct sunlight. Keep only in the original container. For maximum quality store below 25°C. Keep container upright to prevent leakage.

**Other information**

It is recommended to use electrical equipment of temperature group T3. Wash hands thoroughly after handling or contact. Keep working clothing separately and do not take them home.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering controls</b>
Explosion proof ventilation recommended. Ensure good ventilation and local exhaustion of the working area.
<b>Personal protection</b>
<b>Respiratory</b>
The usual precautionary measures for handling chemicals should be observed. Provide adequate ventilation.
<b>Hand</b>
Wear suitable protective gloves of neoprene or synthetic rubber.
<b>Eye</b>
Wear eye/face protection.
<b>Skin and body</b>
Wear suitable protective clothing.
<b>Other information</b>
Launder clothes before reuse.

Dibenzoyl peroxide Agency 94-36-0

5.000mg/m3

Dimethyl phthalate Agency 131-11-3

5.000mg/m3



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	smooth unctuous paste
Colour	white or Red
Odour	faint
Boiling point/range	Undetermined
Melting point/range	Undetermined
Flash point	Not applicable
Flammability	May cause fire
Autoignition temperature	Test method not applicable. (See Section 7)
Explosive properties	no
Explosion limits	Not determined
Oxidizing properties	not applicable
Vapour pressure	not determined
Density	1.1g/c/m <sup>3</sup> (20°C)
Bulk density	not determined
Solubility in water	Insoluble
pH value	not determined
Partition coefficient n-octanol/water	not determined
Relative vapour density (air=1)	not determined
Viscosity	thixotropic paste
Active oxygen content	3.27-3.37 %
Peroxide content	49.5-51.0 %
Autoignition temperature	SADT
Test method not applicable. (See Section 7)	50°C. See also Section 10: Other information.
	Explosion limits not applicable
Specific conductivity	not determined

## 10. STABILITY AND REACTIVITY

<p><b>Stability</b> SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the following temperature: 50°C. Contact with incompatible substances can cause decomposition at or below the SADT.</p> <p><b>Incompatibilities</b> Avoid contact with rust, iron and copper. Contact with incompatible materials such as acids, alkalies, heavy metals and reducing agents will result in hazardous decomposition. Do not mix with peroxide accelerators. Use only Stainless steel 316, PVC, polyethylene or glass-lined equipment.</p> <p><b>Decomposition</b> Benzoic acid, Benzene.</p> <p><b>Conditions to avoid</b> Avoid temperatures above 25°C. Avoid shock and friction.</p>
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## 11. TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation as such available. The following data are applicable to the ingredient(s) listed below.

<b>Dibenzoyl peroxide</b>	V.O.C rating 0.1%/kg
<b>Acute toxicity</b>	
<b>Oral LD50</b>	rat:> 5000 mg/kg
<b>Inhalation LC50</b>	rat:> 24.3 mg/l ; 4 hours exposure time max. attainable concentration
<b>Irritation</b>	
<b>Skin</b>	Non-irritating ( 4 hours exposure time)
<b>Eye</b>	Moderately irritating
<b>Sensitization</b>	Sensitization possible by skin contact
<b>Genotoxicity</b>	Ames test: Not mutagenic
<b>Name</b>	Dibenzoyl peroxide, 78 %
<b>Dimethyl phthalate</b>	
<b>Acute toxicity</b>	
<b>Oral LD50</b>	rat: >2000 mg/kg
<b>Irritation</b>	
<b>Skin</b>	Non-irritating
<b>Name</b>	Dimethyl phthalate

## 12. ECOLOGICAL INFORMATION

No experimental ecological data are available on the substance as such. The following data are applicable to the ingredient(s) listed below.

<b>Dibenzoyl peroxide</b>	
<b>Ecotoxicity</b>	
<b>Name</b>	Dibenzoyl peroxide, 78 %
<b>fish</b>	Acute toxicity, 96h-LC50 = 2.0 mg/l. ( Poecilia reticulata.)
<b>daphnia</b>	48 h-EC50 : 2.91 mg/l
<b>bacteria</b>	Activated sludge respiration inhibition test EC50 = 35 mg/l.
<b>Fate</b>	
<b>Degradation Biotic</b>	Readily biodegradable ( Closed bottle test ).
<b>Dimethyl phthalate</b>	
<b>Ecotoxicity</b>	
<b>Name</b>	Dimethyl phthalate
<b>fish</b>	Acute toxicity, 96h-LC50; 3 mg/l
<b>daphnia</b>	Daphnia magna, 24h-EC50: 7.4 mg/l
<b>Fate</b>	
<b>Degradation Biotic</b>	Readily biodegradable.
<b>Other information</b>	Sio Concentration Factor (SCF) < 100



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## 13. DISPOSAL CONSIDERATION

<b>Product</b> Waste disposal in accordance with regulations (most probably controlled incineration).
<b>Contaminated packaging</b> According to local regulations.
<b>Other information</b> For further advice contact manufacturer.

## 14. TRANSPORT INFORMATION

<i>Land transport (ADRI RID)</i>	
<b>ADR class</b>	5.2
<b>ADRIRID item no.</b>	P1
<b>RID class</b>	5.2
<b>TREM-Card</b>	CEFIC TEC(R)- 52GP1-S
<b>UN number</b>	3108
<b>Proper Shipping Name</b>	Organic peroxide type e, solid; ( Dibenzoyl peroxide.)
<b>Other information</b>	Label(s); 5.2
<i>Sea transport (IMDG-codellIMO)</i>	
<b>Class</b>	5.2
<b>Packing group</b>	II
<b>UN number</b>	3108
<b>EMS</b>	5.2-01
<b>Marine pollutant</b>	no
<b>Proper Shipping Name</b>	Organic peroxide type e, solid; ( Dibenzoyl peroxide)
<b>Other information</b>	Label(s); 5.2
<i>Air transport (ICAO- T1IIA TA-DGR)</i>	
<b>UN number</b>	3108
<b>Class</b>	5.2
<b>Proper Shipping Name</b>	Organic peroxide type e, solid; ( Dibenzoyl peroxide)
<b>Other information</b>	Commodity code:2916320000

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**15. REGULATORY INFORMATION**

**Chemical description** Dibenzoyl peroxide, paste, 50% in Dimethyl phthalate V.O.C 0.1%/kg

**Labelling according to EC directives** EC-number not applicable

R(isk) phrase(s)	
Code	Description
R07.	May cause fire.
R36.	Irritating to eyes.
R43.	May cause sensitization by skin contact.
S(afety) phrase(s)	
Code	Description
S03/07.	Keep container tightly closed in a cool place.

S148.	Keep away from reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers, metal soaps).
S26.	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39.	Wear suitable protective clothing, gloves and eye/face protection.
S50D.	Do not mix with peroxide-accelerators or reducing agents.

**Product is classified and labeled according to CLP regulation**



H242 - Heating may cause a fire.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H400- Very toxic to aquatic life

P101 - If medical advice is required, have product container or label at hand.

P102 - Keep out of reach of children.

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 so. Continue rinsing.

P302/P352 - IF ON SKIN: wash with plenty of soap and water.

P411/P235 - Store at temperatures not exceeding 45c. Keep cool.

EC No: 1272/2008



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**16. OTHER INFORMATION**

This information only concerns the above-mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

<b>R-pharse information</b>		
<b>Chemical name</b>	<b>Risk-phrase(s)</b>	
Dibenzoyl peroxide	R7 R36 R43	Risk of explosion by shock, friction, fire or other sources of ignition Irritating to eyes May cause sensitization by skin contact
Dimethyl phthalate	none	none
<b>History</b>		
<b>Date of printing/ pdf file generated</b>		
<b>Revision</b>	10.03	
<b>Composed by</b>		