SAFETY DATA SHEET **Wudcare Hardeners**

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

PRODUCT NAME	Wudcare Hardener - Dibenzoyl peroxide
PART NUMBER	10BP/25BP/30BP
SUPPLIER	Care Products (Cannock) Ltd 61 Mill Street Cannock Staffordshire WS11 0DR
TELEPHONE	01543 573374
EMERGENCY pm	01543 278105
FAX	01543 579435

Chemical Identification: Dibenzoyl peroxide 50% as paste in phlegmatizer
Application of the Substance/ the preparation
For industrial use
Reaction initiator
Hardening Agent/Curing agent

2. HAZARDS IDENTIFICATION

Xi Irritant
O Oxidising

Information pertaining to particular dangers for man and environment

R 7	May cause fire
R 36	Irritating to eyes
R 43	May cause sensitisation by skin contact

Classification system
The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NO	CONTENTS	HEALTH (Class)	RISK (R No)
Dibenzoyl peroxide EINECS: 202-327-6 Index Number: 617-008-00-0	94-36-0	40-50%	Xi, E;	R2-36-43
2-ethylhexyl benzoate EINECS: 226-641-8	5444-75-7	10-20%		R53
Zinc distearate, pure	557-05-1	2.5-5.0%		
Oxirane, methyl-,polymer with oxirane, monobutyl ether polymer	9038-95-3	1.0-2.5%	Xn, Xi;	R22-36/38

Additional information For the wording of the listed risk phrases refer to section 16

4. FIRST AID MEASURES

General Information	Take care of personal protection for the First Aider
INHALATION	Take affected persons into the fresh air and call a doctor. In case of unconsciousness place patient in the recovery position, for transportation.
SKIN CONTACT	Immediately remove contaminated clothing Wash immediately with soap and water and rinse thoroughly
EYE CONTACT	Rinse opened eye for several minutes under running water. Then consult a doctor
INGESTION	Rinse out mouth and then drink plenty of water Seek medical advice

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing agents	CO_2 Extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam
5.2 For safety reasons unsuitable extinguishing agents	Water with full jet
5.3 Special hazards caused by the material, its products of combustion or resulting gases	In case of fire, the following can be released Carbon monoxide (CO) Carbon dioxide, cracked hydrocarbons
5.4 Protective equipment	Wear self-contained respiratory device
5.5 Additional Information	Cool endangered receptacles with water spray

6. ACCIDENTAL RELEASE MEASURES

6.1 Person-related safety precautions	Keep away from ignition sources
6.2 Measures for protection of the environment	Do not allow to enter sewer/surfaces or ground water
6.3 Measures for cleaning	Soak up with absorbent material (eg Vermiculit) and dispose of in accordance with government regulations
6.4 Additional information	In case of large spillage the environmental authority should be informed

7. HANDLING AND STORAGE

Handling

7.1 Information for safe handling	Keep away from heat and direct sunlight Do not refill residue into storage receptacles Only use tools made of suitable materials (eg polythene or stainless steel) Keep away from dirt, rust, or chemicals in particular concentrated acids, alkalis and accelerators (eg heavy-metal compounds and amines) Do not smoke Avoid contact with skin and eyes Before break and at the end of work hands should be thoroughly washed
7.2 Information about protection against explosions and fires	Keep ignition sources away – Do not smoke Protect against electrostatic charges Wear shoes with conductive soles Avoid open flames, sparks direct sunlight and other sources of ignition. Protect from heat

Storage

7.3 Requirements to be met by storerooms and receptacles	Danger of explosion in closed containers
7.4 Information about storage in one common storage facility	It is allowed to store organic peroxides together only with the following classes of the IMDG-Code Class 4.1 - Flammable solids Class 5.2 - Organic peroxides Class 9 - Miscellaneous dangerous substances and articles Storage areas should be selected in accordance with all local laws
7.5 Further information about storage conditions	Protect from contamination Store receptacle in a well ventilated place Storage areas should be selected in accordance with all local laws
Recommended storage Temperature (To maintain Quality)	5 - 30°C
Storage class	5.2 "Organic Peroxides" (VCI Guideline)

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Additional information about design of technical systems	No further data; see item 7

Components with limit values that require monitoring at the work place

94-36-0 dibenzoyl peroxide	WEL (Great Britain) Long-term value: 5mg/m³
557-05-1 zinc istearate pure	WEL (Great Britain) Short term value: 10*4** mg/m³ *inhalable dust **respirable dust
Additional information	The lists that were valid during the creation were used as basis

8.2 Personal Protection

General protective and hygienic measures	The usual precautionary measures should be adhered to when handling chemicals If a contact with the eyes and skin is possible the specific protective measures has to be used. Use skin protection. Use skin protection cream for skin protection. Keep away from foodstuffs, beverages and food. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
8.3 Breathing Equipment	Use suitable respiratory protective device in case of insufficient ventilation Filter A. Not necessary if room is well ventilated
8.4 Protection of hands	Protective gloves CE labelling cat. III
8.5 Material of gloves	PVA gloves Fluorocarbon rubber (Viton) Butyl rubber BR The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer
8.6 Penetration time of glove material	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed
8.7 As protection from splashes gloves made of the following materials are suitable	Neoprene gloves Nitrile rubber, NBR
Eye protection	Safety glasses
Body protection	Protective suit

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information	
Form	Pasty
Colour	White to light yellow
Odour	Characteristic
Change in condition	
Melting point/Melting range	Undetermined
Boiling point/Boiling range	Undetermined
Flash point	Not applicable
Ignition temperature	
Decomposition temperature	> + 50°C

Self igniting	Product is not self igniting
Danger of explosion	Product does not present an explosion hazard
Density at 20°C	1.15g/cm^3
Solubility in / Miscibility with water	Insoluble
Segregation co-efficient (n-octanol/water)	Not determined
Viscosity	
Dynamic at 20°C	20000 mPas
ACTIVE OXYGEN	3.2 – 3.4 %

10. STABILITY AND REACTIVITY

Thermal decomposition/ conditions to be avoided	Rapid decomposition by heating (eg direct sunlight or heater) No decomposition if used according to specifications
Materials to be avoided	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (eg heavy-metal compounds and amines)
Dangerous reactions	Self accelerating decomposition above > + 60°C
Dangerous products of decomposition	Hydocarbons, carbon dioxide and carbon monoxide No hazardous decomposition products if used and stored according to specifications

11. TOXICOLOGICAL INFORMATION
Acute toxicity
LD/LC50 values that are relevant for classification

94-36-0 Dibenzoyl peroxide		
Oral	LD50	> 5000 mg/kg (Rat)
Inhalative	LC50/4h	> 24.3 mg/l (Rat)
5444-75-7 2-ethylexyl benzonate		
Oral	LD50	>2000 mg/kg (Rat)

Primary irritant effect

On the skin	No irritant effect
On the eye	Low irritant effect
Sensitisation	Sensitization possible through skin contact
Additional toxicological Information	The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version Irritant
Sensitisation	May cause sensitisation by skin contact.

12. ECOLOGICAL INFORMATION
Information about elimination (persistence and degradability)
Other information The product is biodegradable

Aquatic toxicity

Type of test Effective concentration Method Assessment	
94-36-0 Dibenzoyl peroxide	
EC50	35 mg/l (Bacteria)
EC50/48 h	2.91 mg/l (Daphnia)
LC50/96 h	2 mg/l (Poecilia reticulata)

Additional ecological information
General notes
Water hazard class 1 (German regulation) (Self assessment) slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

Product
Recommendation
After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste

Unclean packaging Packaging that cannot be cleansed are to be disposed of in the same
Recommendation manner as the product

14. TRANSPORT INFORMATION

Land Transport ADR (cross border)	
ADR/RID class	5.2 (P1) organic peroxides
UN-Number	3108
Packaging group	-
Hazard label	5.2
Description of goods	3108 Organic peroxide Type E, Solid (Dibenzoyl peroxide)
RID/GGVSE	Like ADR
Maritime Transport IMDG	
IMDG Class	5.2
UN-Number	3108
Packaging group	-
Label	5.2
Marine pollutant	No
Proper shipping name	Organic Peroxide Type E, Solid (Dibenzoyl peroxide)
Air Transport ICAO-TI and IATA-DGR	
ICA/IATA Class	5.2
UN/ID Number	3108
Label	5.2
Packaging group	-
Proper shipping name	Organic peroxide Type E, Solid (Dibenzoyl peroxide

15. REGULATIONS

Markings according to EU Guidelines: Markings on the basis of internal knowledge
The product has been classified and marked in accordance with EU Directives/Ordinance on Hazardous Materials

Code letter and hazard designation of product: Xi Irritant
O Oxidising

Hazard determining of components of Labelling: Dibenzoyl peroxide

Risk phrases:
7 may cause fire
36 irritating to eyes
43 may cause sensitisation by skin contact

Safety phrases:
2 Keep out of the reach of children
3/7 Keep container tightly closed in a cool place
14 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators
26 In case of contact with eyes rinse immediately with water and seek medical advice
36/37/39 Wear suitable protective clothing, glove and eye protection
50 Do not mix with peroxide – accelerators or reducing agents
60 This material and its container must be disposed of as hazardous waste

National Regulations, Take care of the respective local regulations.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

Relevant R-phrases
2 Risk of explosion by shock, friction, fire or other sources of ignition
22 Harmful if swallowed
36 Irritating to eyes
36/38 Irritating to eyes and skin
43 May cause sensitisation by skin contact
53 May cause long term adverse effects in the aquatic

environment

Contact Care Products (Cannock) Ltd