



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Asplit® OC Hardener**

Revision date: 08.11.2019

Product code: 00359-1240

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H360D May damage the unborn child.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P220 Keep away from clothing and other combustible materials.  
P234 Keep only in original packaging.  
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 separately.  
P501 Dispose of contents/container to in accordance with local and national regulations.

**2.3. Other hazards**

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.  
Dust may form explosive mixtures with air.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Hardener based on dibenzoyl peroxide

**Hazardous components**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
84-61-7	Dicyclohexyl phthalate			40 - 50 %
	201-545-9		01-2119978223-34	
	Repr. 1B, Skin Sens. 1, Aquatic Chronic 3; H360D H317 H412			
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), Aquatic Chronic 1 (M-Factor = 10); H241 H319 H317 H400 H410			

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

**Further Information**

SVHC substance [Regulation (EC) No 1907/2006, Article 57]  
Dicyclohexyl phthalate

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

Remove contaminated soaked clothing immediately.  
Adhere to personal protective measures when giving first aid.  
Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.



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#### After inhalation

Supply fresh air, if required oxygen, consult a physician.  
If patient is not breathing, apply artificial respiration.  
Remove the casualty into fresh air and keep him immobile.  
In case of the person being unconscious put him/her in a stable side position.

#### After contact with skin

Wash off immediately with soap and plenty of water.  
Consult a doctor if skin irritation persists.

#### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical treatment by eye specialist.

#### After ingestion

Summon a doctor immediately.  
Rinse out mouth and give plenty of water to drink.  
Never give anything by mouth to an unconscious person.  
Induce vomiting only upon the advice of a physician.

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

Causes serious eye irritation.  
May cause an allergic skin reaction.  
Suspected of damaging fertility.

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

Treat symptoms.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.

##### Unsuitable extinguishing media

Full water jet

#### 5.2. Special hazards arising from the substance or mixture

Fire may produce:  
carbon monoxide and carbon dioxide  
Hydrocarbons

#### 5.3. Advice for firefighters

Use breathing apparatus with independent air supply.  
Protective suit.

#### Additional information

Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

In case of vapour formation use respirator.  
Ensure adequate ventilation.  
Use personal protective clothing.  
Keep away sources of ignition.

#### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

#### 6.3. Methods and material for containment and cleaning up

Shovel into suitable container for disposal.



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Soak up with inert absorbent material (e.g. vermiculite, clean sand).  
In compliance with regulations by local authorities this can be subjected to a special treatment (e.g. thermal utilization) after dilution with an inert solid to 10% content of peroxides.  
Do not keep container sealed.

#### 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).  
Information for disposal see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.  
Avoid the formation of dust. Do not breathe dust.  
Wash hands before breaks and at the end of workday.  
Keep away from acids, bases, heavy metal salts and reducing agents.

#### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.  
Keep away from open flames, hot surfaces and sources of ignition.  
Use explosion-proof equipment / fittings and non-sparking tools.

### 7.2. Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Keep only in original container.  
Keep container tightly closed in a dry, cool and well-ventilated place.  
Protect against direct sun radiation.  
Recommended storage temperature: +5°C - +30°C

#### **Hints on joint storage**

Incompatible with:  
Reducing agents., Heavy metal salts, Acids and bases.

#### **Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

Hardener

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
94-36-0	Dibenzoyl peroxide	-	5		TWA (8 h)	WEL
84-61-7	Dicyclohexyl phthalate	-	5		TWA (8 h)	WEL

### 8.2. Exposure controls

#### **Appropriate engineering controls**

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

#### **Protective and hygiene measures**

Do not breathe dust.  
Avoid contact with eyes and skin.  
Wash hands before breaks and immediately after handling the product.  
When using do not eat, drink or smoke.

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Remove and wash contaminated clothing before re-use.

**Eye/face protection**

Tightly fitting goggles (EN 166).  
Eye wash bottle with pure water (EN 15154).

**Hand protection**

Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Pls. find examples in the protective gloves database under: <http://bestglove.com/site/chemrest/>

**Skin protection**

Long sleeved clothing (DIN EN ISO 6530)  
Apron (EN 467).

**Respiratory protection**

Breathing apparatus (particle filter) only if dust is formed. (Particle filter P2)

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: Powder  
Colour: Whitish  
Odour: Characteristic

**Test method**

pH-Value: n.a.

**Changes in the physical state**

Melting point: n.a.  
Initial boiling point and boiling range: n.a.  
Sublimation point: n.a.  
Softening point: n.a.  
Flash point: n.a.

**Flammability**

Solid: May cause fire.  
Gas: n.a.

**Explosive properties**

The product is considered non-explosive; nevertheless explosive dust/air mixture can be generated

Lower explosion limits: n.d.  
Upper explosion limits: n.d.  
Ignition temperature: n.a.

**Auto-ignition temperature**

Solid: The product is not self-igniting  
Gas: n.a.

Decomposition temperature: +60 °C SADT

**Oxidizing properties**

May cause fire.

Vapour pressure: n.a.

Density (at 20 °C): 1,12 g/cm<sup>3</sup>



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Bulk density (at 20 °C):	n.d.
Water solubility: (at 20 °C)	n.d.
<b>Solubility in other solvents</b> n.d.	
Partition coefficient:	n.d.
Viscosity / dynamic:	n.a.
Viscosity / kinematic:	n.a.
Flow time:	n.a.
Vapour density:	n.a.
Evaporation rate:	n.a.
Solvent separation test:	n.a.
Solvent content:	0 %

#### 9.2. Other information

SADT (UN-Test H.4): approx. 60°C  
Active oxygen: 3,2 - 3,4%

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No decomposition if stored normally.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Reacts with:  
Soil, rust, chemicals, strong acids and bases and accelerators (heavy metal salts, amines).

#### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.  
Self-Accelerating decomposition temperature (SADT) from 60°C (SADT).  
Dust may form explosive mixtures with air.

#### 10.5. Incompatible materials

Soil, rust, chemicals, strong acids and bases and accelerators (heavy metal salts, amines).

#### 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide  
Hydrocarbons

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

Based on available data, the classification criteria are not met.  
No toxicological data available.  
Dibenzoyl peroxide: LD50/oral/rat: > 5000 mg/kg  
Dicyclohexyl phthalate: LD50/oral/rat: > 2000 mg/kg

##### Irritation and corrosivity

Causes serious eye irritation.  
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

##### Sensitising effects

May cause an allergic skin reaction. (Dicyclohexyl phthalate; Dibenzoyl peroxide)



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#### **Carcinogenic/mutagenic/toxic effects for reproduction**

May damage the unborn child. (Dicyclohexyl phthalate)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

#### **STOT-single exposure**

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

#### **STOT-repeated exposure**

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

#### **Aspiration hazard**

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

#### **Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

## SECTION 12: Ecological information

### **12.1. Toxicity**

Ecological data are not available.

Very toxic to aquatic life with long lasting effects.

Dibenzoyl peroxide

LC50/Oncorhynchus mykiss/96 h = 0,0602 mg/l

EC50/Daphnia magna/48 h = 110 mg/l

EC50/Pseudokirchneriella subcapitata/72 h = 0,0711 mg/l

### **12.2. Persistence and degradability**

No data available

### **12.3. Bioaccumulative potential**

No data available

### **12.4. Mobility in soil**

No data available

### **12.5. Results of PBT and vPvB assessment**

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

### **12.6. Other adverse effects**

Hazardous water pollutant.

#### **Further information**

Do not flush into surface water or sanitary sewer system.

Risk of drinking water contamination even when low quantities are released into the ground.

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

In compliance with regulations by local authorities this can be subjected to a special treatment (e.g. thermal utilization) after dilution with an inert solid to 10% content of peroxides.

Where possible recycling is preferred to disposal.

#### **List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

#### **Contaminated packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken

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for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

#### SECTION 14: Transport information

##### Land transport (ADR/RID)

<b>14.1. UN number:</b>	UN 3106
<b>14.2. UN proper shipping name:</b>	ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide)
<b>14.3. Transport hazard class(es):</b>	5.2
<b>14.4. Packing group:</b>	-
Hazard label:	5.2



Classification code:	P1
Limited quantity:	500 g / 30 kg
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D

##### Inland waterways transport (ADN)

<b>14.1. UN number:</b>	UN 3106
<b>14.2. UN proper shipping name:</b>	ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide)
<b>14.3. Transport hazard class(es):</b>	5.2
<b>14.4. Packing group:</b>	-
Hazard label:	5.2



Classification code:	P1
Limited quantity:	500 g / 30 kg
Excepted quantity:	E0

##### Marine transport (IMDG)

<b>14.1. UN number:</b>	UN 3106
<b>14.2. UN proper shipping name:</b>	ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide)
<b>14.3. Transport hazard class(es):</b>	5.2
<b>14.4. Packing group:</b>	-
Hazard label:	5.2



Marine pollutant:	No
Limited quantity:	500 g / 30 kg
Excepted quantity:	E0
EmS:	F-J, S-R

##### Air transport (ICAO-TI/IATA-DGR)

<b>14.1. UN number:</b>	UN 3106
<b>14.2. UN proper shipping name:</b>	ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide)
<b>14.3. Transport hazard class(es):</b>	5.2



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#### 14.4. Packing group:

-

Hazard label:

5.2



Limited quantity Passenger:

Forbidden

Passenger LQ:

Forbidden

Excepted quantity:

E0

IATA-packing instructions - Passenger:

570

IATA-max. quantity - Passenger:

5 kg

IATA-packing instructions - Cargo:

570

IATA-max. quantity - Cargo:

10 kg

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

yes



#### 14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

The transport takes place only in approved and appropriate packaging.

### SECTION 15: Regulatory information

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

##### EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

Dicyclohexyl phthalate

Restrictions on use (REACH, annex XVII):

Entry 30: Dicyclohexyl phthalate

2004/42/EC (VOC):

0 %

Information according to 2012/18/EU (SEVESO III):

E1 Hazardous to the Aquatic Environment

##### National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

##### Additional information

Consider Chemical prohibition regulation.

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

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**Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
IMDG = International Maritime Code for Dangerous Goods  
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization  
MARPOL = International Convention for the Prevention of Pollution from Ships  
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals  
CAS = Chemical Abstract Service  
EN = European norm  
ISO = International Organization for Standardization  
DIN = Deutsche Industrie Norm  
PBT = Persistent Bioaccumulative and Toxic  
vPvB = Very Persistent and very Bio-accumulative  
LD = Lethal dose  
LC = Lethal concentration  
EC = Effect concentration  
IC = Median immobilisation concentration or median inhibitory concentration

**Relevant H and EUH statements (number and full text)**

H241	Heating may cause a fire or explosion.
H242	Heating may cause a fire.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360D	May damage the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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