

**Safety data sheet**  
 according to UK REACH

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** Benzoyl Peroxide humidified with  $\approx$  25% H<sub>2</sub>O
- **Article number:** 2357
- **Application of the substance / the mixture** Laboratory chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 PANREAC QUIMICA S.L.U.  
 C/Garraf 2  
 Polígono Pla de la Bruguera  
 E-08211 Castellar del Vallès (Barcelona)  
 Tel. (+34) 937 489 400  
 Fax. (+34) 937 489 401  
 e-mail: product.safety@itwreagents.com
- **Further information obtainable from:** email: product.safety@panreac.com
- **1.4 Emergency telephone number:**  
 Single telephone number for emergency calls: 112 (EU)  
 Tel.: (+34) 937 489 499

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
 Self-react. C      H242 Heating may cause a fire.  
 Eye Irrit. 2      H319 Causes serious eye irritation.  
 Skin Sens. 1      H317 May cause an allergic skin reaction.  
 Aquatic Acute 1      H400 Very toxic to aquatic life.  
 Aquatic Chronic 1      H410 Very toxic to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
 The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS02



GHS07



GHS09

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GB

**Trade name: Benzoyl Peroxide humidified with ≈ 25% H<sub>2</sub>O**

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- **Signal word** Danger
- **Hazard-determining components of labelling:**  
benzoyl peroxide
- **Hazard statements**  
H242 Heating may cause a fire.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
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.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.  
P403 Store in a well-ventilated place.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

|                                |                                                         |           |
|--------------------------------|---------------------------------------------------------|-----------|
| CAS: 94-36-0                   | benzoyl peroxide                                        | >50-<100% |
| EINECS: 202-327-6              | Org. Perox. B, H241; Aquatic Acute 1, H400; Aquatic     |           |
| Reg.nr.: 01-2119511472-50-XXXX | Chronic 1, H410; Eye Irrit. 2, H319; Skin Sens. 1, H317 |           |

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Seek medical treatment.
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Immediately remove any clothing soiled by the product.
- **After eye contact:** Call a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

GB  
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Trade name: Benzoyl Peroxide humidified with  $\approx 25\%$  H<sub>2</sub>O

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## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide and carbon dioxide  
Non-combustible.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid formation of dust.  
Avoid substance contact.  
Ensure adequate ventilation
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Avoid formation of dust.  
Clean up affected area.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep receptacles tightly sealed.  
Any unavoidable deposit of dust must be regularly removed.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect from heat.  
The product is not flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from heat and direct sunlight.  
Open receptacle only under localised extractor facilities.
- **Recommended storage temperature:** Room Temperature
- **Storage class:** 5.2

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Trade name: Benzoyl Peroxide humidified with  $\approx 25\%$  H<sub>2</sub>O

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- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

#### · **Ingredients with limit values that require monitoring at the workplace:**

**94-36-0 benzoyl peroxide**

WEL Long-term value: 5 mg/m<sup>3</sup>

- **Additional information:** The lists valid during the making were used as basis.

### · 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes and skin.
- **Respiratory protection:** Required when dusts are generated.
- **Recommended filter device for short term use:** Filter P1
- **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · **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.

#### · **For the permanent contact gloves made of the following materials are suitable:**

Recommended thickness of the material:  $\geq 0.11$  mm

Value for the permeation: Level  $\geq 480$  min

#### · **As protection from splashes gloves made of the following materials are suitable:**

Recommended thickness of the material:  $\geq 0.11$  mm

Value for the permeation: Level  $\geq 480$  min

### · **Eye/face protection**



Tightly sealed goggles

- **Body protection:** Use protective suit.

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Trade name: Benzoyl Peroxide humidified with  $\approx 25\%$  H<sub>2</sub>O

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## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

|                                                            |                                    |
|------------------------------------------------------------|------------------------------------|
| · General Information                                      |                                    |
| · Physical state                                           | Solid                              |
| · Colour:                                                  | According to product specification |
| · Odour:                                                   | Characteristic                     |
| · Odour threshold:                                         | Not determined.                    |
| · Melting point/freezing point:                            | 102-105 °C                         |
| · Boiling point or initial boiling point and boiling range | Undetermined.                      |
| · Lower and upper explosion limit                          |                                    |
| · Lower:                                                   | Not determined.                    |
| · Upper:                                                   | Not determined.                    |
| · Flash point:                                             | Not applicable.                    |
| · Decomposition temperature:                               | Not determined.                    |
| · pH at 20 °C                                              | <7                                 |
| · Viscosity:                                               |                                    |
| · Kinematic viscosity                                      | Not applicable.                    |
| · Dynamic:                                                 | Not applicable.                    |
| · Solubility                                               |                                    |
| · water:                                                   | Soluble.                           |
| · Partition coefficient n-octanol/water (log value)        | Not determined.                    |
| · Vapour pressure at 20 °C:                                | 23 hPa (7732-18-5 water)           |
| · Density and/or relative density                          |                                    |
| · Density at 20 °C:                                        | 1.248 g/cm <sup>3</sup>            |
| · Relative density                                         | Not determined.                    |
| · Vapour density                                           | Not applicable.                    |

### · 9.2 Other information

|                                                                                 |                                               |
|---------------------------------------------------------------------------------|-----------------------------------------------|
| · Appearance:                                                                   |                                               |
| · Form:                                                                         | Solid                                         |
| · Important information on protection of health and environment, and on safety. |                                               |
| · Ignition temperature:                                                         | Product is not selfigniting.                  |
| · Explosive properties:                                                         | Product does not present an explosion hazard. |
| · Solvent content:                                                              |                                               |
| · Water:                                                                        | 25.0 %                                        |
| · Solids content:                                                               | 75.0 %                                        |
| · Change in condition                                                           |                                               |
| · Evaporation rate                                                              | Not applicable.                               |

### · Information with regard to physical hazard classes

|                                         |                           |
|-----------------------------------------|---------------------------|
| · Explosives                            | Void                      |
| · Flammable gases                       | Void                      |
| · Aerosols                              | Void                      |
| · Oxidising gases                       | Void                      |
| · Gases under pressure                  | Void                      |
| · Flammable liquids                     | Void                      |
| · Flammable solids                      | Void                      |
| · Self-reactive substances and mixtures | Heating may cause a fire. |
| · Pyrophoric liquids                    | Void                      |
| · Pyrophoric solids                     | Void                      |

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Trade name: Benzoyl Peroxide humidified with  $\approx 25\%$  H<sub>2</sub>O

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- |                                                                             |      |
|-----------------------------------------------------------------------------|------|
| · Self-heating substances and mixtures                                      | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids                                                         | Void |
| · Oxidising solids                                                          | Void |
| · Organic peroxides                                                         | Void |
| · Corrosive to metals                                                       | Void |
| · Desensitised explosives                                                   | Void |

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** In the event of fire: See chapter 5

## SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**  
Quantitative data on the toxicological effect of this product are not available.
- **Primary irritant effect:**
- **Serious eye damage/irritation** Causes serious eye irritation.
- **After inhalation:** No irritant effect.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **11.2 Information on other hazards**

### · Endocrine disrupting properties

None of the ingredients is listed.

## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Very toxic for fish

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**Trade name: Benzoyl Peroxide humidified with ≈ 25% H<sub>2</sub>O**

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- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Chemicals must be disposed of in compliance with the respective national regulations.  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

## SECTION 14: Transport information

- |                                                                                     |                                |
|-------------------------------------------------------------------------------------|--------------------------------|
| · <b>14.1 UN number or ID number</b>                                                | UN3104                         |
| · <b>ADR, IMDG, IATA</b>                                                            |                                |
| · <b>14.2 UN proper shipping name</b>                                               | ORGANIC PEROXIDE TYPE C, SOLID |
| · <b>ADR, IMDG, IATA</b>                                                            |                                |
| · <b>14.3 Transport hazard class(es)</b>                                            |                                |
| · <b>ADR</b>                                                                        |                                |
|  |                                |
| · <b>Class</b>                                                                      | 5.2 (P1) Organic peroxides.    |
| · <b>Label</b>                                                                      | 5.2                            |
| · <b>IMDG, IATA</b>                                                                 |                                |
|  |                                |
| · <b>Class</b>                                                                      | 5.2 Organic peroxides.         |
| · <b>Label</b>                                                                      | 5.2                            |
| · <b>14.4 Packing group</b>                                                         |                                |
| · <b>ADR, IMDG, IATA</b>                                                            | Void                           |
| · <b>14.5 Environmental hazards:</b>                                                | Not applicable.                |
| · <b>14.6 Special precautions for user</b>                                          | Warning: Organic peroxides.    |
| · <b>Hazard identification number (Kemler code):</b>                                | -                              |
| · <b>EMS Number:</b>                                                                | F-J,S-R                        |
| · <b>Stowage Category</b>                                                           | D                              |

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Trade name: Benzoyl Peroxide humidified with ≈ 25% H2O

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|                                                                       |                                                                                                           |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| · <b>Stowage Code</b>                                                 | SW1 Protected from sources of heat.                                                                       |
| · <b>Segregation Code</b>                                             | SG35 Stow "separated from" SGG1-acids<br>SG36 Stow "separated from" SGG18-alkalis.<br>SG72 See 7.2.6.3.2. |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable.                                                                                           |
| · <b>Transport/Additional information:</b>                            |                                                                                                           |
| · <b>ADR</b>                                                          |                                                                                                           |
| · <b>Limited quantities (LQ)</b>                                      | 100 g                                                                                                     |
| · <b>Excepted quantities (EQ)</b>                                     | Code: E0<br>Not permitted as Excepted Quantity                                                            |
| · <b>Transport category</b>                                           | 1                                                                                                         |
| · <b>Tunnel restriction code</b>                                      | D                                                                                                         |
| · <b>IMDG</b>                                                         |                                                                                                           |
| · <b>Limited quantities (LQ)</b>                                      | 100 g                                                                                                     |
| · <b>Excepted quantities (EQ)</b>                                     | Code: E0<br>Not permitted as Excepted Quantity                                                            |
| · <b>UN "Model Regulation":</b>                                       | UN 3104 ORGANIC PEROXIDE TYPE C, SOLID, 5.2                                                               |

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

### · **Regulated explosives precursors**

None of the ingredients is listed.

### · **Regulated poisons**

None of the ingredients is listed.

### · **Reportable explosives precursors**

None of the ingredients is listed.

### · **Reportable poisons**

None of the ingredients is listed.

### · **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

### · **Seveso category**

P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES  
E1 Hazardous to the Aquatic Environment

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 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 phrases**

H241 Heating may cause a fire or explosion.

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**Trade name: Benzoyl Peroxide humidified with ≈ 25% H2O**

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H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Self-react. C: Self-reactive substances and mixtures – Type C/D

Org. Perox. B: Organic peroxides – Type B

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

## **Annex: Exposure scenario**

· **Short title of the exposure scenario** Formulation and packing/repacking of substances and mixtures

· **Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.

· **Conditions of use**

· **Duration and frequency** 5 workdays/week.

· **Physical parameters**

· **Physical state** Solid

· **Concentration of the substance in the mixture** The substance is main component.

· **Other operational conditions**

· **Other operational conditions affecting environmental exposure** Use only on hard ground.

· **Other operational conditions affecting worker exposure**

Avoid contact with eyes.

Avoid contact with the skin.

Avoid long-term or repeated skin contact.

· **Other operational conditions affecting consumer exposure** No special measures required.

· **Other operational conditions affecting consumer exposure during the use of the product**

Not applicable.

· **Risk management measures**

· **Worker protection**

· **Organisational protective measures** No special measures required.

· **Technical protective measures**

Use product only in enclosed systems.

Ensure that suitable extractors are available on processing machines

· **Personal protective measures**

Do not inhale dust / smoke / mist.

Avoid contact with the skin.

Avoid contact with the eyes.

Tightly sealed goggles

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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**Trade name: Benzoyl Peroxide humidified with  $\approx$  25% H<sub>2</sub>O**

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- **Measures for consumer protection** Ensure adequate labelling.
- **Environmental protection measures**
- **Water** Do not allow to reach sewage system.
- **Soil** Prevent contamination of soil.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

GB