



SAFETY DATA SHEET

According to Model Work Health and Safety Regulations and National Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals

Version 1.0

Issue date: 19-02-2024

Revision date: 19-02-2024

SDS Record Number: CSSS-TCO-010-162307

Section 1—Identification

| | |
|--|---|
| Product identifier | BPO paste PERVELOX EVO 50 - E02 |
| Other means of identification | - |
| Recommended use | Dibenzoyl peroxide, pasta. Hardening agent / Curing agent. Polymerisation catalyst. |
| Restrictions on use | - |
| Details of manufacturer or importer Supplier(Manufacturer): | Spray Shop Supplies Pty Ltd. |
| Address: | 38 Cyber Loop Dandenong South, Victoria, 3175, Australia. |
| Contact person(E-mail): | orders@sprayshopsupplies.com.au |
| Telephone: | +61 03 9799 2007 |
| Fax: | N/A |
| Emergency number: | +03 9799 2007 (Monday-Friday: 8.00-4:30PM) |
| Importer Company name: | |
| Address: | |
| Contact person(E-mail): | |
| Telephone: | |
| Fax: | |
| Emergency number: | |

Section 2—Hazard(s) identification

GHS classification:

| | | |
|-------------------------------|-----------------------|-------------|
| Physical hazards: | Organic peroxides | Type E |
| Health hazards: | Sensitisation—skin | Category 1 |
| | Eye damage/irritation | Category 2A |
| Environmental hazards: | Not classified | |

GHS label elements:

Hazard Pictograms :



Signal word:

Warning

Hazard statement:

Heating may cause a fire
 May cause an allergic skin reaction
 Causes serious eye irritation

Precautionary statement:

General precautions:

If medical advice is needed, have product container or label at hand.

Material name: BPO paste PERVELOX EVO 50 - E02

SDS AUSTRALIA

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Keep out of reach of children.

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
 No smoking.
 Keep only in original packaging.
 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response:

IF ON SKIN: Wash with plenty of water.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

Store in a well-ventilated place.

Disposal:

Store at temperatures not exceeding 25°C/ 77°F.
 Dispose of contents/container in accordance with local/regional/national/international regulations. **Other**

hazards which do not result in classification: Not applicable.

Section 3—Composition and information on ingredients

| Components | CAS No. | Percent (%) |
|--------------------|----------|-------------|
| dibenzoyl peroxide | 94-36-0 | 45-52% |
| dimethyl phthalate | 131-11-3 | 25-35% |
| ethanediol | 107-21-1 | 0.1-9.9% |

Section 4—First aid measures

Description of necessary first aid measures

Inhalation:

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

Skin:

If skin irritation continues, consult a doctor. Immediately wash with water and soap and rinse thoroughly.

Eye:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Ingestion:

Do not induce vomiting; call for medical help immediately.

Symptoms caused by exposure

May cause an allergic skin reaction. Causes serious eye irritation.

Medical Attention and Special Treatment

Treat symptomatically.

Section 5—Firefighting measures

Suitable extinguishing media: Use carbon dioxide, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Extinguishing media which must not be used for safety reasons: Not available.

Specific hazards arising from the chemical In case of fire, the following can be released: Carbonic anhydride (CO₂), Carbon monoxide (CO), Benzoic acid, Benzene, Biphenyl, Phenyl benzoate. Under certain fire conditions, traces of other toxic gases cannot be excluded.

Special protective equipment and precautions for firefighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

HAZCHEM code 1W

Section 6—Accidental release measures

Personal precautions: Keep away from ignition sources. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Use respiratory protective device against the effects of fumes/dust/aerosol.

Containment procedures: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Methods for cleaning up: Pick up mechanically. Do not allow to dry out. Ensure adequate ventilation.

Section 7—Handling and storage

Precautions for safe handling: Use only in well ventilated areas. Ensure good ventilation/exhaustion at the workplace. Keep away from heat and direct sunlight. Protect against electrostatic charges. Substance/product is oxidising when dry. Keep ignition sources away - Do not smoke.

Conditions for safe storage, including any incompatibilities Store in a cool location. Store only in the original receptacle. Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Store receptacle in a well ventilated area. Prevent from drying out. Keep container tightly sealed. Protect from heat and direct sunlight. The product, stored in the original containers, away from sunlight, maintains its properties for 12 months from the production date.
Recommended storage temperature: +5°C / +25°C.

Section 8—Exposure controls and personal protection

Control parameters

Occupational exposure limits

dibenzoyl peroxide (94-36-0)

Australia - Occupational Exposure Limits

| | |
|------------|---------------------------------------|
| Local name | Benzoyl peroxide (Dibenzoyl peroxide) |
|------------|---------------------------------------|

| | |
|---------|---------------------|
| OES TWA | 5 mg/m ³ |
|---------|---------------------|

| | |
|-------------|---|
| Remark (AU) | Sen - Respiratory and/or Skin Sensitiser. |
|-------------|---|

| | |
|----------------------|---|
| Regulatory reference | Workplace exposure standards for airborne contaminants (2022) |
|----------------------|---|

dimethyl phthalate (131-11-3)

| Australia - Occupational Exposure Limits | |
|---|---|
| Local name | Dimethylphthalate |
| OES TWA | 5 mg/m ³ |
| Regulatory reference | Workplace exposure standards for airborne contaminants (2022) |
| ethanediol (107-21-1) | |
| Australia - Occupational Exposure Limits | |
| Local name | Ethylene glycol (Ethane-1,2-diol) |
| OES TWA | 10 mg/m ³ particulate |
| | 52 mg/m ³ vapour |
| | 20 ppm vapour |
| OES STEL | 104 mg/m ³ vapour |
| | 40 ppm vapour |
| Remark (AU) | Sk - Absorption through the skin may be a significant source of exposure. |
| Regulatory reference | Workplace exposure standards for airborne contaminants (2022) |

DNEL/DMEL and PNEC-Values: dibenzoyl peroxide (94-36-0)

| | | |
|--|-------------------------------------|------------------------------|
| Workers - Hazard via inhalation route | Systemic effects-Long term exposure | DNEL=39 mg/m ³ |
| Workers - Hazard via dermal route | Systemic effects-Long term exposure | DNEL=13.3 mg/kg bw/day |
| General Population - Hazard via inhalation route | Systemic effects-Long term exposure | DNEL=34 µg/cm ² |
| General Population - Hazard via oral route | Systemic effects-Long term exposure | DNEL=2 mg/kg bw/day |
| Hazard for aquatic organisms | Freshwater | PNEC=0.02 µg/L |
| Hazard for aquatic organisms | Marine water | PNEC=0.002 µg/L |
| Hazard for aquatic organisms | STP | PNEC=0.35 mg/L |
| Hazard for aquatic organisms | Sediment (freshwater) | PNEC=0.013 mg/kg sediment dw |
| Hazard for aquatic organisms | Sediment (marine water) | PNEC=0.001 mg/kg sediment dw |
| Hazard for terrestrial organisms | Soil | PNEC=0.003 mg/kg soil dw |

dimethyl phthalate (131-11-3)

| | | |
|--|-------------------------------------|-----------------------|
| General Population - Hazard via oral route | Systemic effects-Long term exposure | DNEL=9.4 mg/kg bw/day |
|--|-------------------------------------|-----------------------|

ethanediol (107-21-1)

| | | |
|--|-------------------------------------|---------------------------|
| Workers - Hazard via inhalation route | Local effects-Long term exposure | DNEL=35 mg/m ³ |
| Workers - Hazard via dermal route | Systemic effects-Long term exposure | DNEL=106 mg/kg bw/day |
| General Population - Hazard via inhalation route | Local effects-Long term exposure | DNEL=7 mg/m ³ |
| General Population - Hazard via dermal route | Systemic effects-Long term exposure | DNEL=53 mg/kg bw/day |

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls:

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protective equipment:

Eye and face protection

Tightly sealed goggles.

| | |
|-------------------------------|--|
| Skin protection | Light weight protective clothing. |
| Hand protection | Protective gloves. Material of gloves: Neoprene gloves, Nitrile rubber, NBR. Recommended thickness of the material: ≥ 0.14 mm. For the mixture of chemicals mentioned, the penetration time has to be at least 30 minutes. |
| Respiratory protection | Use suitable respiratory protective device in case of insufficient ventilation. |
| Thermal hazards | Wear suitable protective workwear to prevent from thermal hazards. |

Section 9—Physical and chemical properties

| | |
|--|--|
| Appearance: | |
| Physical state: | Solid |
| Form: | Pasty |
| Color: | Different according to colouring |
| Odor: | Characteristic |
| Odour threshold: | Not available |
| PH: | 4-5 (20 °C) |
| Melting point/Freezing point: | 0 °C |
| Initial boiling point and boiling range: | Not Applicable Prior to or during boiling decomposition occurs. |
| Flash point: | Not Applicable |
| Evaporation rate: | Not determined |
| Flammability (solid, gas) : | May cause fire |
| Upper/lower flammability or explosive limits: | Not Applicable |
| Vapor pressure: | Not Applicable |
| Vapor density: | Not Applicable |
| Density: | 1.15-1.25 g/cm ³ (20 °C) |
| Bulk density: | Not available |
| Solubility (H₂O) : | Insoluble |
| Partition coefficient (n-octanol/water) : | Not Applicable |
| Auto-ignition temperature: | Not Applicable |
| Decomposition temperature: | SADT = 50 °C |
| Kinematic viscosity: | 172000-754000 m ² /s |
| Viscosity, dynamic: | (Brookfield, 20°C) 215000-867000 mPa·s |
| VOC (EC) : | Not available |
| Molecular Formula: | Not Applicable |
| Molecular Weight: | Not Applicable |
| Particle size: | Not Applicable |

Section 10—Stability and reactivity

| | |
|--------------------|---|
| Reactivity: | The substance is stable under normal storage and handling conditions. |
|--------------------|---|

| | |
|--|--|
| Chemical stability: | <p>Thermal decomposition / conditions to be avoided:</p> <p>No decomposition if used and stored according to specifications.</p> <p>Exothermic thermal decomposition.</p> <p>Visible decomposition with spontaneous ignition on heating.</p> <p>SADT = 50°C</p> <p>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.</p> <p>A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT.</p> <p>Contact with incompatible substances can cause decomposition at or below the SADT.</p> |
| Possibility of hazardous reactions: | Reacts with reducing agents. Reacts with heavy metals. Reacts with alkali, amines and strong acids. |
| Conditions to avoid: | Incompatible materials. |
| Incompatible materials: | Reducing agents. Heavy metals. Alkali, amines and strong acids. |
| Hazardous decomposition products: | Benzoic acid, Benzene, Biphenyl, Phenyl benzoate. |

Section 11—Toxicological information

Toxicological data: Acute

toxicity:

dibenzoyl peroxide (CAS#94-36-0)

| | |
|-------------------------------|-----------------|
| LD50(Oral, Rat): | Not available |
| LD50(Dermal, Rat): | Not available |
| LC50(Inhalation, Rat): | > 24.3 mg/L 4 h |

dimethyl phthalate (CAS#131-11-3)

| | |
|-------------------------------|------------------|
| LD50(Oral, Rat): | 8200 mg/kg bw |
| LD50(Dermal, Rabbit): | > 12000 mg/kg bw |
| LC50(Inhalation, Rat): | Not available |

ethanediol (CAS#107-21-1)

| | |
|-------------------------------|----------------|
| LD50(Oral, Rat): | 7712 mg/kg bw |
| LD50(Dermal, Rat): | Not available |
| LC50(Inhalation, Rat): | > 2.5 mg/L 6 h |

| | |
|---|---|
| Skin corrosion/Irritation: | No data available. |
| Serious eye damage/irritation: | Causes serious eye irritation. |
| Respiratory or skin sensitization: | May cause an allergic skin reaction. |
| Germ cell mutagenicity: | No data available. |
| Carcinogenicity: | No data available. |
| Reproductive toxicity: | No data available. |
| STOT- single exposure: | No data available. |
| STOT-repeated exposure: | No data available. |
| Aspiration hazard: | No data available. |
| Other information | This product has no known adverse effect on human health. |
| Information on routes of exposure | No data available. |
| Symptoms related to exposure | No data available. |
| Numerical measures of toxicity | No data available. Immediate, delayed and chronic health effects from exposure |

Section 12—Ecological information

Ecotoxicity:

| dibenzoyl peroxide (CAS#94-36-0) | | | | | | |
|-----------------------------------|-------------|------|---------|----------|------------|---------|
| Acute toxicity | | Time | Species | Method | Evaluation | Remarks |
| LC50 | 0.06 mg/L | 96h | Fish | OECD 203 | N/A | N/A |
| EC50 | 0.11 mg/L | 48h | Daphnia | OECD 202 | N/A | N/A |
| EC50 | 0.071 mg/L | 72h | Algae | OECD 201 | N/A | N/A |
| dimethyl phthalate (CAS#131-11-3) | | | | | | |
| Acute toxicity | | Time | Species | Method | Evaluation | Remarks |
| LC50 | N/A | 96h | Fish | OECD 203 | N/A | N/A |
| LC50 | 33 mg/L | 48h | Daphnia | OECD 202 | N/A | N/A |
| EC50 | >= 100 mg/L | 72h | Algae | OECD 201 | N/A | N/A |
| ethanediol (CAS#107-21-1) | | | | | | |
| Acute toxicity | | Time | Species | Method | Evaluation | Remarks |
| LC50 | 53000 mg/L | 96h | Fish | OECD 203 | N/A | N/A |
| EC50 | > 100 mg/L | 48h | Daphnia | OECD 202 | N/A | N/A |
| EC50 | N/A | 72h | Algae | OECD 201 | N/A | N/A |

Persistence and degradability:

Not available.

Bioaccumulative potential:

Not available.

Mobility in soil:

Not available.

Other adverse effects:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13—Disposal considerations

Safe handling and disposal methods:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Disposal of any contaminated packaging:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14—Transport information

ADG

UN number

UN3108

Proper shipping name

ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)

Hazard class

5.2

Packing group

-

Special precautions Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number UN3108

Proper shipping name ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)

Hazard class 5.2

Packing group -

Special precautions Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN3108

Proper shipping name ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)

Hazard class 5.2

Packing group -

Environmental hazards

Marine pollutant Yes

Special precautions Read safety instructions, SDS and emergency procedures before handling. **Transport in bulk according to Annex II of - MARPOL 73/78 and the IBC Code:**

Section 15—Regulatory information

Safety, health and environmental regulations

National regulations

Australian Inventory of Industrial Chemicals (AIIC)

dibenzoyl peroxide (94-36-0) Listed dimethyl phthalate
 (131-11-3) Listed ethanediol (107-21-1) Listed

Section 16—Any other relevant information

Indication of changes: Version 1.0

Key abbreviations or acronyms used: CAS: Chemical Abstracts Service
 LC50: Lethal Concentration 50
 EC50: Concentration for 50% of maximal effect
 LD50: Lethal dose 50%
 MAC: maximum allowable concentration, (MAC)
 PC-TWA: permissible concentration-time weighted average
 PC-STEL: permissible concentration-short term exposure limit

Further information: This information is based upon the present state of our knowledge. This MSDS has been compiled and is solely intended for this product.

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