

**FILR-GF-(VAKU-70)-1800G-(COMP A)**

Version            Revision Date:            SDS Number:            Date of last issue: 12.05.2021  
3.1                16.09.2021                4133049-00009            Date of first issue: 09.04.2019

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**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name                                : FILR-GF-(VAKU-70)-1800G-(COMP A)

Product code                                : 0892 607 02 (A)

**Manufacturer or supplier's details**

Company                                      : Wurth Australia Pty Ltd

Address                                        : 2/1 Healey Road  
Dandenong South, Victoria, 3175

Telephone                                    : +61 3 8788 1111

Emergency telephone number : 1300 657 765. Advisory office in case of poisoning - National  
Poisons Centre: 131 126

E-mail address                                : prodsafe@wuerth.com

**Recommended use of the chemical and restrictions on use**

Recommended use                            : Hardener

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Organic peroxides                         : Type E

Skin sensitisation                         : Category 1

Serious eye damage/eye irritation       : Category 2A

**GHS label elements**

Hazard pictograms                         :  

Signal word                                 : Warning

Hazard statements                         : H242 Heating may cause a fire.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

Precautionary statements                : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames  
and other ignition sources. No smoking.  
P234 Keep only in original packaging.

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P235 Keep cool.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 Wash skin thoroughly after handling.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 Store in a well-ventilated place.  
 P410 Protect from sunlight.  
 P420 Store separately.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Dibenzoyl peroxide	94-36-0	>= 30 -< 50
Dimethyl phthalate	131-11-3	>= 25 -< 30

**SECTION 4. FIRST AID MEASURES**

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
 When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.  
 Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.

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- Remove contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Get medical attention.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.  
Causes serious eye irritation.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- Notes to physician : Treat symptomatically and supportively.

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**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : The product burns violently.  
Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides  
Silicon oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.
- Hazchem Code : 1W

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.  
Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
- Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Clear spills immediately.  
Do not clean-up or dispose of, except under supervision of a specialist.  
Take any precaution to avoid mixing with combustibles.  
Keep substance wet using water spray.  
Soak up with inert absorbent material.  
Remove mechanically and with care (e.g. with clean polyethylene plastic shovel).  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Keep waste moist, cool and well-ventilated.  
Isolate waste and do not reuse.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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**SECTION 7. HANDLING AND STORAGE**

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.  
If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.
- Advice on safe handling : Do not get on skin or clothing.  
Avoid breathing dust, fume, gas, mist, vapours or spray.  
Do not swallow.  
Do not get in eyes.  
Wash skin thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Non-sparking tools should be used.  
Prevent pressure build-up. Confinement can rapidly increase rate of decomposition.

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Protect from contamination.  
 Keep cool.  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Keep away from clothing and other combustible materials.  
 Take precautionary measures against static discharges.  
 Keep only in original packaging.  
 Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.  
 When using do not eat, drink or smoke.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Wash contaminated clothing before re-use.

Conditions for safe storage : Keep in properly labelled containers.  
 Store in original container.  
 Keep in a dry, cool and well-ventilated place.  
 Protect from sunlight.  
 Adhere to recommended storage temperature.  
 Store in accordance with the particular national regulations.  
 Keep away from heat and sources of ignition.

Materials to avoid : Do not store with the following product types:  
 Oxidizing agents  
 Flammable gases  
 Flammable liquids  
 Flammable solids  
 Pyrophoric liquids  
 Pyrophoric solids  
 Self-heating substances and mixtures  
 Substances and mixtures, which in contact with water, emit flammable gases  
 Poisonous gases  
 Explosives  
 Corrosive Substances

Recommended storage temperature : 25 °C

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Dibenzoyl peroxide	94-36-0	TWA	5 mg/m <sup>3</sup>	AU OEL
		Further information: Sensitiser		
		TWA	5 mg/m <sup>3</sup>	ACGIH
Dimethyl phthalate	131-11-3	TWA	5 mg/m <sup>3</sup>	AU OEL

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		TWA	5 mg/m <sup>3</sup>	ACGIH
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**Occupational exposure limits of decomposition products**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Benzene	71-43-2	TWA	1 ppm 3.2 mg/m <sup>3</sup>	AU OEL
	Further information: Category 1A (Carc. 1A) Known to have carcinogenic potential for humans			
		TWA	0.5 ppm	ACGIH
		STEL	2.5 ppm	ACGIH
Biphenyl	92-52-4	TWA	0.2 ppm 1.3 mg/m <sup>3</sup>	AU OEL
		TWA	0.2 ppm	ACGIH

**Engineering measures** : Processing may form hazardous compounds (see section 10).  
 Ensure adequate ventilation, especially in confined areas.  
 Minimize workplace exposure concentrations.  
 If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

**Personal protective equipment**

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type : Combined particulates and organic vapour type

**Hand protection**

Material : Chloroprene  
 Break through time : >= 480 min  
 Glove thickness : >= 0.6 mm  
 Protective index : Class 6

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment:  
 Safety goggles

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
 Wear the following personal protective equipment:  
 If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic

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protective clothing.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	paste
Colour	:	coloured
Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	Solvent mixture; pH value determination not possible, no aqueous solution
Melting point/freezing point	:	> 3,000 °C
Initial boiling point and boiling range	:	100 °C
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	23 hPa (20 °C)
Relative vapour density	:	Not applicable
Density	:	1.1 g/cm <sup>3</sup> (20 °C) Method: DIN 53217
Bulk density	:	20 - 200 kg/m <sup>3</sup> (20 °C)
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	555 °C

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Method: DIN 51794

Decomposition temperature : 50 °C

Viscosity  
Viscosity, dynamic : 10,000 mPa.s ( 20 °C)

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Available oxygen content : 3.3 %

Particle size : No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Heating may cause a fire.

Chemical stability : Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.

Possibility of hazardous reactions : Oxidizing material can cause a reaction. Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid : Heat, flames and sparks.  
Protect from contamination.  
Temperatures greater than recommended storage temperature.  
Contact with incompatible substances can cause decomposition at or below SADT.

Incompatible materials : Oxidizing agents  
Avoid impurities (e.g. rust, dust, ash), risk of decomposition.  
Flammable materials

**Hazardous decomposition products**

Thermal decomposition : Benzoic acid  
Benzene  
Phenyl benzoate  
Biphenyl

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**SECTION 11. TOXICOLOGICAL INFORMATION**

Exposure routes : Skin contact  
Ingestion  
Eye contact

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**Acute toxicity**

Not classified based on available information.

**Components:****Dibenzoyl peroxide:**

Acute oral toxicity : LD50 (Mouse): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC0 (Rat): 24.3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

**Dimethyl phthalate:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 10.4 mg/l  
Exposure time: 6 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Dibenzoyl peroxide:**

Species : Rabbit  
Result : No skin irritation

**Dimethyl phthalate:**

Species : Rabbit  
Result : No skin irritation  
Remarks : Based on data from similar materials

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Components:****Dibenzoyl peroxide:**

Species : Rabbit  
Result : Irritation to eyes, reversing within 21 days  
Remarks : Based on harmonised classification in EU regulation 1272/2008, Annex VI

**Dimethyl phthalate:**

Species : Rabbit  
Result : No eye irritation

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Method : OECD Test Guideline 405

**Respiratory or skin sensitisation****Skin sensitisation**

May cause an allergic skin reaction.

**Respiratory sensitisation**

Not classified based on available information.

**Components:****Dibenzoyl peroxide:**

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Result : positive

Assessment : Probability or evidence of skin sensitisation in humans

**Dimethyl phthalate:**

Test Type : Open epicutaneous test  
Exposure routes : Skin contact  
Species : Guinea pig  
Result : negative

**Chronic toxicity****Germ cell mutagenicity**

Not classified based on available information.

**Components:****Dibenzoyl peroxide:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

**Dimethyl phthalate:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471

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Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: positiveTest Type: Chromosome aberration test in vitro  
Result: negativeGenotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Rat  
Application Route: Intraperitoneal injection  
Result: negative**Carcinogenicity**

Not classified based on available information.

**Components:****Dibenzoyl peroxide:**Species : Rat  
Application Route : Skin contact  
Exposure time : 104 weeks  
Result : negative**Dimethyl phthalate:**Species : Mouse, male  
Application Route : Skin contact  
Exposure time : 55 weeks  
Result : negative**Reproductive toxicity**

Not classified based on available information.

**Components:****Dibenzoyl peroxide:**Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negativeEffects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative**Dimethyl phthalate:**Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat

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Application Route: Ingestion  
Method: OECD Test Guideline 416  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Skin contact  
Result: negative

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Repeated dose toxicity****Components:****Dibenzoyl peroxide:**

Species : Rat  
NOAEL : 500 mg/kg  
Application Route : Ingestion  
Exposure time : 54 Days  
Method : OECD Test Guideline 422

**Dimethyl phthalate:**

Species : Rat  
NOAEL : 1,000 mg/kg  
LOAEL : 2,000 mg/kg  
Application Route : Ingestion  
Exposure time : 2 yr

Species : Mouse  
NOAEL : 2,700 mg/kg  
Application Route : Skin contact  
Exposure time : 1 yr

**Aspiration toxicity**

Not classified based on available information.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Dibenzoyl peroxide:**

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- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0602 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.11 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.0711 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): 0.02 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): 0.001 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211
- Toxicity to microorganisms : EC50: 35 mg/l  
Exposure time: 0.5 h  
Method: OECD Test Guideline 209

**Dimethyl phthalate:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 39 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 52 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 259.76 mg/l  
Exposure time: 72 h
- EC10 (Desmodesmus subspicatus (green algae)): 193.09 mg/l  
Exposure time: 72 h
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 11 mg/l  
Exposure time: 102 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 9.6 mg/l  
Exposure time: 21 d

**Persistence and degradability****Components:****Dibenzoyl peroxide:**

- Biodegradability : Result: Readily biodegradable.

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Biodegradation: 71 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

**Dimethyl phthalate:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 91 %  
Exposure time: 11 d  
Method: OECD Test Guideline 301E

**Bioaccumulative potential****Components:****Dibenzoyl peroxide:**

Partition coefficient: n-octanol/water : log Pow: 3.2

**Dimethyl phthalate:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 57

Partition coefficient: n-octanol/water : log Pow: 1.54

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

UN number : UN 3108  
Proper shipping name : ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2

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**IATA-DGR**

UN/ID No. : UN 3108  
Proper shipping name : Organic peroxide type E, solid (Dibenzoyl peroxide)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : Organic Peroxides, Keep Away From Heat  
Packing instruction (cargo aircraft) : 570  
Packing instruction (passenger aircraft) : 570

**IMDG-Code**

UN number : UN 3108  
Proper shipping name : ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)  
  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2  
EmS Code : F-J, S-R  
Marine pollutant : yes

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****ADG**

UN number : UN 3108  
Proper shipping name : ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)  
  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2  
Hazchem Code : 1W

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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**SECTION 15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**

Standard for the Uniform Scheduling of Medicines and Poisons : Schedule 5

Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regula-

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tions.

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 0 g/l

**The components of this product are reported in the following inventories:**

AIIC : All ingredients listed or exempt.

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**SECTION 16. OTHER INFORMATION**
**Further information**

Revision Date : 16.09.2021

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Date format : dd.mm.yyyy

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
AU OEL / TWA : Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances



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es; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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