



PT. PANDU GREEN ENERGI

Bellezza BSA 1st Floor SA1-06 Jl. Letjen Soepeno Permata Hijau
Kelurahan Grogol Utara Kec. Kebayoran Lama
Jakarta Selatan DKI Jakarta 12210
Telp + 62 851 6127 6473 + 62 813 83088083 + 7 913 862-49-55
Email: pandugregy@gmail.com

221861.1485MSDS

MATERIAL SAFETY DATA SHEET

SECTION 1—IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND IDENTIFICATION OF THE COMPANY / UNDERTAKING

- 1.1 Product Identifier Identification of the substance** : Coconut Shell Charcoal Briquette for Shisha
- CAS Number** : 68647-86-9
- 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses** : Barbeque, Energy, Shisha
- 1.3 Details of the supplier of the safety data sheet** : **PT. PANDU GREEN ENERGI**
Bellezza BSA 1st Floor SA1-06,
Jl. Letjen Soep Grogol Utara, Kebayoran Lama,
Kota ADM, Jakarta Selatan, DKI Jakarta
- 1.4 Emergency telephone number** : **1. Fatimah**
Contact Person : +62 813 8308 8083
E-mail : fatimah.radjab@gmail.com
- 2. Visi Pandu Ramadhan**
Contact Person : +7 913 862-49-55
E-mail : visipandu9@gmail.com

SECTION 2 - HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture** : According to Regulation (EC) No. 1272/2008 (CLP), This substance meets the criteria for classification in accordance with Regulation No. 1272/2008/EC.
- 2.2 Label elements** : A positive result is obtained in a test using 100 mm cube at 140°C of 24 hours test, while e test using 25 mm cube at 140°C and 100 mm cube at 120°C indicates a negative result.

Accordingly, said sample shall not be classified as Class 4.2 of the IMDG code: substances liable to spontaneous combustion, and the substance is to be transported in packages with a volume not more than 3m³

Labeling according to Regulation (EC) No 1272/2008 (CLP): not required

- 2.3 Other hazards** : There is no additional information.



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SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances	Wet Basic	Dry Basic
Moisture in the Analysis Sample (weight %)	: 5.65	-
Ash Content (weight %)	: 5.01	5.31
Volatile Matter (weight %)	: 19.73	20.91
Fixed Carbon (weight %)	: 69.61	73.78

SECTION 4 – FIRST AID MEASURES

4.1 Description of first aid measures

General notes	: Take off contaminated clothing
Following inhalation	: Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.
Following skin contact	: Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.
Following eye contact	: Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.
Following ingestion	: Rinse mouth. Call a doctor if you feel unwell. Symptoms and effects are not known to date.

4.2 Most Important Symptoms and Effects, both acute and delayed : None

4.3 Indication of any immediate medical attention and special treatment needed : None



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SECTION 5 – FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Co-ordinate firefighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO₂)

Unsuitable extinguishing media : Water jet

5.2 Special hazards arising from the substance or mixture : The danger of dust explosion.

Hazardous combustion products : In the case of fire, carbon monoxide (CO) and carbon dioxide (CO₂) may be liberated.

5.3 Advice for firefighters : Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6– ACCIDENTAL RELEASE MEASURE

6.1 Personal precautions, protective equipment, and emergency procedures

6.1.1 Personal Precautions : Avoid contact with eyes. Ensure adequate ventilation. Use personal protective equipment as required.

6.1.2 Special hazards arising from the substance or mixture : Refer to protective measures listed in Section 8.

6.2 Environmental Precautions

6.2.1 Environmental Precautions : See section 12 for ecological information.

6.3 Methods and Material for Containment and Cleaning Up

6.3.1 Methods for Containment : Use appropriate tools to put the spilt solid in a convenient waste disposal container.

6.3.2 Methods for Cleaning Up : Remove heat and ignition sources. Vacuum sweep, if possible, to avoid generating airborne dust. Wash residual to the on-site treatment area, where appropriate. If the treatment area is not available, wash down to the sanitary sewer.

Contact the sanitary treatment facility in advance to assure the ability to process washed-down material



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6.4 Reference To Other Section

Hazardous combustion products: see section 5. Personal Protective Equipment: see section 8.
Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7- HANDLING AND STORAGE

7.1 Precautions for safe handling

- 7.1.1 Handling : Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes, and clothing.

7.2 Conditions for Safe Storage, Including any Incompatibilities

- 7.2.1 Storage : The Coconut Shell Charcoal Briquette for Shisha should be stored in well-ventilated areas, and air should be able to circulate between the stored materials. In addition, the product should be stored in a dry area away from open flames, heat sources, and other ignition sources.
- 7.2.2 Incompatible product :
Strong oxidizer

- 7.3 Specific end use(s):** : Barbeque, Energy, Shisha



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SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameter

National limit values

Occupational exposure limit values (Workplace Exposure Limits) are not relevant

8.2 Exposure controls

Individual protection measures (personal protective equipment)



- Eye/face protection : Use safety goggles with side protection.
- Hand Protection : Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.
- Type of Material : NBR (Nitrile rubber).
- Material Thickness : >0.11 mm.
- Breakthrough times of the glove material : >480 minutes (permeation: level 6)
- Other protection measures : Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.
- Respiratory protection : Respiratory protection was necessary during Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).



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SECTION 9- PHYSICAL DATA AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	: Solid
Appearance	: Charcoal
Colour	: Black
Odour	: None
Ignition Point	: Combustible
Flash point	: Not available
Boiling point	: Not available
Melting point	: 398°C
Evaporation rate	: Not available
pH	: 7
Vapour density	: Not available
Specific gravity	: 1.3 (Approximately)
Solubility (water)	: Insoluble
Vapour pressure	: < 0.1 mm Hg
Upper explosion limit	: Not available
Lower explosion limit	: Not available
Auto ignition temperature	: 180°C
Decomposition temperature	: Not available
Viscosity	: Not available
Partition coefficient	: Not available



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SECTION 10- STABILITY AND REACTIVITY DATA

- 10.1 Reactivity** : The product in the delivered form is not dust explosion capable; the enrichment of fine dust, however, leads to the danger of dust explosion
- 10.2 Chemical stability** : The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
- 10.3 Possibility of hazardous reactions** : The danger of explosion: Oxidizers, Peroxides
- 10.4 Conditions to avoid** : There are no specific conditions known which have to be avoided.
- 10.5 Incompatible materials** : There is no additional information Contact with oxidizing (e.g. ozone, chlorine, liquid, and oxygen), acids and metals may cause a fire.
- 10.6 Hazardous decomposition products** : Hazardous combustion products: see section 5.

SECTION 11 - TOXICOLOGICAL PROPERTIES

11.1 Information on likely routes of exposure

- Inhalation : Inhalation may irritate the respiratory tract.
- Eye contact : Dust may cause temporary eye irritation.
- Skin Contact : Minor or no effects are expected
- Ingestion : Minor or no effects are expected
- Symptoms : It may cause a tearing of the eyes. In addition, inhalation of dust may irritate the respiratory tract.
- Sensitization : No information is available.
- Mutagenic Effects : No information is available.



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SECTION 12 – ECOLOGICAL INFORMATION

- 12.1 Toxicity** : Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.
- 12.2 Process of degradability** : The methods for determining biological degradability do not apply to inorganic substances.
- 12.3 Bio-accumulative potential** : Does not significantly accumulate in organisms.
- 12.4 Mobility in soil** : Data are not available.

SECTION 13 – DISPOSAL CONSIDERATION

13.1 Waste treatment methods

- 13.1.1 Disposal Methods : Reclaim, if possible; otherwise, dispose of in accordance with all applicable federal, state, and local regulations.
- 13.1.2 Contaminated Packaging : Dispose of in accordance with all applicable federal, state, and local regulations.

SECTION 14 – TRANSPORT INFORMATION

- 14.1 UN number** : (Not subject to transport regulations)
- 14.2 UN proper shipping name** : Not relevant
- 14.3 Transport hazard class(es)** : Not relevant *(since the Self Heating Test showed that the related sample should NOT be classified in Self Heating Substances)
- 14.4 Packing group** : Not relevant since the Self Heating Test showed that the related sample should NOT be classified as Self Heating Substances
- 14.5 Special precautions for user** : None (non-environmentally hazardous acc. to the dangerous goods regulations)
- 14.6 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** : There is no additional information.
- 14.7 Information for each of the UN Model Regulations** : The cargo is not intended to be carried in bulk.
- : Not subject to ADR, RID and ADN.



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- Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)
 - International Maritime Dangerous Goods Code (IMDG)
- : Not subject to IMDG.*(since Self heating Test showed that the related sample is NOT classified as Self Heating Substances)

SECTION 15 – REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific to the substance or mixture

Relevant provisions of the European Union (EU) 14.2 UN proper shipping name

- 15.1.1 Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) : Not listed
- 15.1.2 Regulation 1005/2009/EC On substances that deplete the ozone layer (ODS) : Not listed
- 15.1.3 Regulation 850/2004/EC on persistent organic pollutants (POP) : Not listed
- 15.1.4 Restrictions according to REACH, Annex XVII : Not listed
- 15.1.5 Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II : Not listed
- 15.1.6 Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR) : The substance is listed in the following national inventories:
 - EINECS/ELINCS/NLP (Europe)
 - REACH (Europe)

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.



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SECTION 16 – OTHER INFORMATION

16.1 Additional Information

Always wash hands with soap and water before smoking, eating or drinking. Showering at the end of the working day is recommended. Launder contaminated clothing before reuse. Encourage no eating, drinking or smoking when handling this material.

- | | | |
|---------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respirators | : | In general, respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn, ensure correct respirator selection and training. |
| Exposure Standards – Time Weighted Averages | : | Exposure standards are established on the premise of an 8 hours work period of normal intensity, under normal climatic conditions and where a 16-hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the recuperation period). |
| Personal Protective Equipment Guidelines | : | The recommendation for protective equipment contained within this MSDS report is provided as a guide only. Factors such as the method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before the final selection of personal protective equipment is made. |
| Health Effects From Exposure | : | It should be noted that the effects of exposure to this product will depend on several factors, including frequency and duration of use, quantity used, the effectiveness of control measures, protective equipment used and method of application. Given that it is impractical to prepare an MSDS report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate |



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Report Status

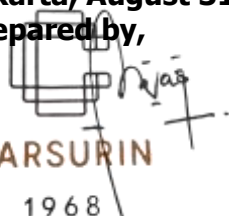
This document has been compiled by Carsurin on behalf of the product's manufacturer and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product provided to Carsurin by the manufacturer or obtained from third-party sources and is believed to represent the current state of knowledge on the appropriate safety and handle precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While Carsurin has taken all due care to include accurate and up-to-date information in this SDS, it does not guarantee accuracy or completeness. Accordingly, as far as lawfully possible, Carsurin accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

Jakarta, August 31st, 2022

Prepared by,



CARSURIN
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AMRAN LESMANA

Consultant of PT. PANDU GREEN ENERGI

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