

Material Safety Data Sheet

CHARCOAL



Health	1
Fire	1
Reactivity	0
Personal Protection	A

4- Extreme
3- High
2- Moderate
1- Slight
0- Insignificant
See Section VIII for
Personal Protection

Section I. Chemical Product and Company Identification

- **Chemical Name:** Carbon black
 - **Synonym:** Granular Charcoal, wood Charcoal, **Vegetable Carbon**
 - **CAS Number:** 7440-44-0
 - **Chemical Formula:** C
- In case of Emergency Call: C R S de Souza Eireli 55-53 99968-0067*
Product used for barbecue

Section II. Composition and Information on Ingredients

Material	CAS	%	OSHA	ACGIH
Carbon black	7440-44-0	100%	Not Established	Not Established

- Since no Exposure limits have been established for Charcoal by OSHA e ACGIH, we recommend that our product should be treated as a nuisance dust 15 mg/m³.

Section III. Hazards Identification

- **Acute Health Effects:** Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.
- **Chronic Health Effects:** This product has no known chronic effects. Repeated or prolong exposure to this compound is not known to aggravate medical conditions.
- **Acute Health Effects:** This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

Section IV. First Aid Measures

- **First Aid For Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
- **First Aid For Skin:** In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.
- **First Aid For Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
- **First Aid For Ingestion:** If swallowed, call a physician immediately.

Section V. Fire and Explosion Data

- **Flammability:** Non-Flamable
- **Flash Points:** Not Applicable
- **Auto-Ignition:** Not Applicable
- **Flammable Limits:** Not Applicable
- **Extinguishing Media:** Water Spray
- **Fire Fighting Procedure:** Burning will produce toxic fumes. Wear self-contained breathing apparatus and full turnout gear to fight fires.
- **Fire/Explosion Hazards:** Concentrated dust may present an explosion hazard. May be subject to spontaneous heating, when wet, freshly calcined, or tightly packed.

Section VI. Accidental Release Measures

- **Spill Or Leak Procedures:** Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water

Section VII. Handling and Storage

- **Storage Temperatures:** Store at ambient temperature
- **Shelf Life:** Unlimited in tightly closed container.
- **Special Sensitivity:** None
- **Handling/Storage Precautions:** Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see Section X). Reseal containers immediately after use. Store away from food and beverages.

Section VIII. Exposure Controls/Personal Protection

- **Eye Protection:** Safety glasses or goggles.
- **Skin Protection:** PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.
- **Respirator:** Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.
- **Ventilation:** Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.
- **Additional Protective Measures:** Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

Section IX. Physical and Chemical Properties

- **Physical Form:** Granular Material
- **Color:** Black
- **Odor:** Odorless
- **Molecular Weight:** 12.01
- **Boiling Point:** 4500°C
- **Melting/Freezing Point:** 3500°C
- **Solubility In Water:** Insoluble
- **Specific Gravity:** 0.5 g/cm³

Section X. Stability And Reactivity

- **Stability:** Stable
- **Hazardous Polymerization:** Will Not occur
- **Incompatibilities:** Oxidizers
- **Instable Conditions:** Excessive temperatures (see Incompatibilities).
- **Decomposition Temperature:** Not Established
- **Decomposition products:** Oxides of Carbon

Section XI. Toxicological Information

- **RTECS Number:** FL7248000
- **Routes of Exposure:** Eye contact. Ingestion. Inhalation when in powder.
- **Toxicity Data:** This material has not shown any long term harmful effects
- **Chronic Toxic Effects:** None
- **Acute Toxic Effects:** Causes readily reversible changes, which disappear after end of exposure.

Section XII. Ecological Information

- **Ecotoxicity:** Not available at this time.

Section XIII. Disposal Considerations

- **Waste Disposal Method:** Charcoal, in its original state, is not harmful to the environment. Waste disposal should be in accordance with existing federal, state and local environmental regulations.

Section XIV. Transportation Information

- **Proper Shipping Name:** Charcoal or wood carbon
- **UN Number:** Not applicable
- **Hazard Class:** Not applicable
- **Packing Group:** Not applicable

Section XV. Regulatory Information

- **OSHA Status:** This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
- **TSCA Chemical Inventory:** This compound is on the EPA Toxic Substance Control Act (TSCA) inventory List
- **California Proposition 65:** To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.
- **SARA:** Section 302 Extremely Hazardous Substances: None
Section 311/312 Hazardous Categories: None
Section 313 Toxic Chemicals: None

Section XVI. Other Information

- **Prepared By:** Etel Baiard Mota Bersch Director Company - C R S de Souza EIRELI
- **Date:** January 05, 2021
- **Reason For Issue:**

Charchoal can be safely stored in any normal storage area, but away from sources of direct heat.

No warranty, expressed or implied, or merchantability, fitness for a particular purpose or otherwise is made, except that the products herein discussed comply with the chemical description on the labels. Buyer assumes risks of the use, storage and handling. Hummel shall not be liable for any incidental or consequential damages arising directly or indirectly in connection with the purchase, use, storage or handling of this product. The information contained herein is, to the best of our knowledge, true and accurate. However, all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. We disclaim any liability incurred in connection with the use of these data or suggestions. This information is not to be taken as a license to operate under, or a recommendation to infringe any patent(s). The observance of all regulations and patents is the responsibility of the user. No agent, representative or employee of this company is authorized to vary any terms of this notice.

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(http://www.dpc.mar.mil.br/sites/default/files/ssta/material/cat_mat_homol/lab_credenciados.pdf)

LABORATORY RECOGNIZED BY BRASILIAN MARITIME AUTHORITY - DPC, WITH DEFINED SCOPE FOR THIS ANALYSIS, ACCORDING TO HOMOLOGATION CERTIFICATE
001/2018, AUTHENTICATED IN THE DPC SITE:
(http://www.dpc.mar.mil.br/sites/default/files/ssta/material/cat_mat_homol/lab_credenciados.pdf)

RELATÓRIO DE ENSAIO n° 70335

TEST REPORT nr. 70335

TESTE DE AUTO-AQUECIMENTO EM AMOSTRA DE CARVÃO VEGETAL SELF-HEATING TEST IN VEGETAL CHARCOAL SAMPLE

Cliente/Client:

Endereço/Address:

Amostra Testada: **CARVÃO VEGETAL – LOTE 02/CRS Souza.**

Sample Tested: Vegetal Charcoal – Lot 02/CRS Souza.

Espécie Vegetal de Origem: **Madeira de Acácia Negra (*Acacia mearnsii*).**

Responsabilidade Técnica de Amostragem: **Engº Agrônomo João Antonio Dias Taddei - CREA RS 008706**

Origin Vegetal Species: Acacia sp.

Technical Responsibility of sampling: João Antonio Dias Taddei – Agronomic Engineer – CREA RS 008706

(Legally attested and sampled by trained professionals)

Data do Recebimento da Amostra: **15 de março de 2021.**

Sample Receiving Date: March, 15th, 2021

Período de Realização do Teste: **15 a 22 de março de 2021.**

Test Period: March, 15th to 22th, 2021.

Local de Realização: **LABORATÓRIO DE QUÍMICA.**

Place of Analysis: Chemistry Laboratory.

Referência Técnica: **RECOMENDAÇÕES NO TRANSPORTE DE PRODUTOS PERIGOSOS (ONU) - MANUAL DE TESTES E CRITÉRIOS - DIVISÃO 4.2. PARTE III ITEM 33.3.1.6 Teste N.4: Método de Teste para Substâncias com Auto-Aquecimento.**

Technical Reference: Recommendations on the Transport of Dangerous Goods (UN) - Manual of Tests and Criteria - Division 4.2. - Part III – item 33.3.1.6 Test N.4: Test Method for Self-Heating Substances.

Este Relatório de Ensaio é valido por três (03) meses.

This Report is valid for six (06) months.

Pro-Ambiente

Análises Químicas e Toxicológicas Ltda.

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(http://www.dpc.mar.mil.br/sites/default/files/ssta/material/cat_mat_homol/lab_credenciados.pdf)

RELATÓRIO DE ENSAIO n° 70335

TEST REPORT nr. 70335

COMPORTAMENTO DA TEMPERATURA DURANTE O TESTE – GRÁFICO(S)

Temperatures Behavior during Test – Graphics

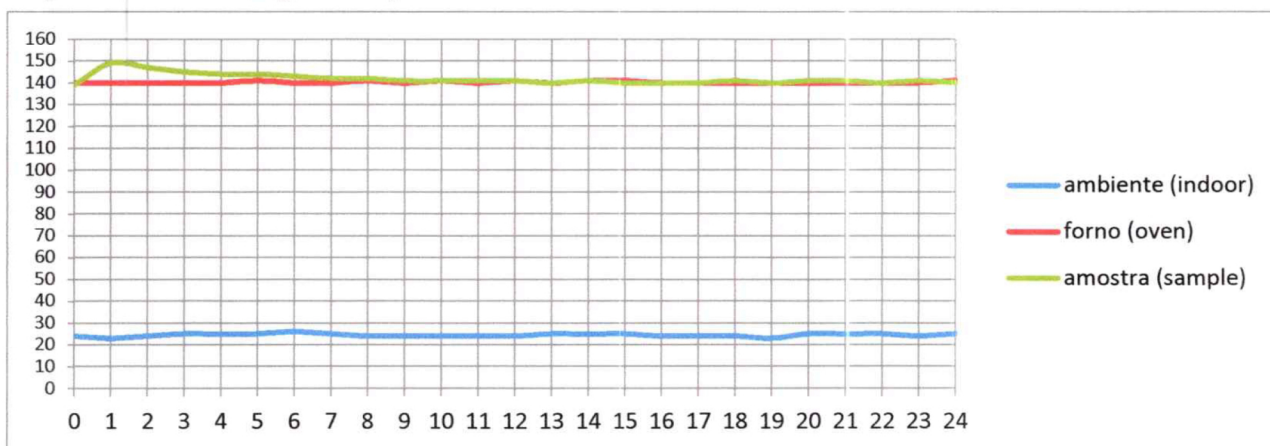


Figura 1. Variação de temperatura da mufla (linha vermelha sólida), da amostra (linha verde sólida) e da temperatura ambiente (linha azul sólida) ao longo do tempo ensaiado e realizado em cubo de 100 mm de lado disposto em forno de mufla mantido à temperatura de 140°C, durante 24 horas.

Figure 1. Variation of the furnace (red solid line), the sample (green solid line) and the room temperatures (blue solid line) with time on stream for test performed in a 100 mm sample cube at 140°C, during 24 hours.

RESULTADO

Result

Segundo o Manual de Testes e Critérios – ONU – Divisão 4.2, a amostra testada é classificada como substância desprovida de auto aquecimento.

According the Manual of Tests and Criteria – UN – Division 4.2, the tested sample is not classified as a self-heating good.

A consignment of carbon if it passes the tests for "self-heating substances", as reflected in the Manual of Tests and Criteria (see 33.3.1.3.3), and is accompanied by a certificate from a laboratory accredited by the DPC- Brazilian Navy - competent authority, stating that the product to be loaded has been correctly and legally attested and sampled by trained (legal professionals) staff from DPC control, and that the sample was correctly tested and has passed the test.

Porto Alegre, 22 de março de 2021.

Porto Alegre / Brazil, march, 22nd, 2021.



Engº Químico Marcos dos Santos Aidos

CREA RS 81632

CRQ 5ª Região 132091850

Pró-Ambiente

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Os resultados acima se referem somente a amostra ensaiada.

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The results refer exclusively to the analyzed sample.

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NO: ROA-157-21SIMED

CERTIFICATE OF ANALYSIS

BOOKING NUMBER : EBKG01234294
REFERENCE NUMBER : SIMED-156-2021

SHIPPER
ADDRESS OF SAMPLING

DESCRIPTION of SAMPLE : WOOD CHARCOAL
SAMPLING DATE : MARCH 03, 2021
DATE of RECEIVED : MARCH 04, 2021
DATE of ANALYSIS : MARCH 04, 2021
SAMPLING : Samples were taken and prepared in accordance with
SNI 19-042B-1998

RESULTS :

PARAMETER	UNIT	RESULTS	METHODS
Total moisture	%,ar	7.18	ASTM D 3302-10
Ash content	%,adb	4.81	ASTM D 3174-049
Volatile matter	%,adb	10.18	ISO 562-2010
Fixed carbon	%,adb	91.63	ASTM D 3172-07a
Total sulfur	%,adb	0.04	ASTM D 4239-11
Gross calorific value	Kcal/Kg,adb	6.820	ASTM D 5865-10

This Report is issued without prejudice which refers to analysis only to the those point described therein and does not deal report of any other matter

Issued Date : March 08, 2021
PT. SURVEYOR INDONESIA (Persero)



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NO: ROA-157-21SIMED

VIEW OF VISUAL SAMPLING



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NO : CSHT-035SIMED

CERTIFICATE OF SELF HEATING TEST

SHIPPER
DESCRIPTION of GOODS

THIS IS TO CERTIFY, that the above mentioned sample have been analysis by us with the
Following result :

DATE of RECEIVED : JANUARY 04, 2021
DATE of TESTING : JANUARY 05, 2021
EXPIRY DATE : JUNE 06, 2021

THE RESULT(s) of ANALYSIS ARE FOLLOWING

NO.	TEST OF SAMPLE KIND	SPONTANEUS COMBUSTIBLE EVERY FOUR HOUR TEMPERATURE °C						MOISTURE CONTENTS (% W/W)
		I	II	III	IV	V	VI	
1	OVEN	140	140	140	140	140	140	7.38
2	WOOD CHARCOAL	130.8	131.4	133.7	139.8	140.1	141.3	

NOTE :

1. After 24 Hour of continous heating 140 °C in Oven
2. The sample was correctly tested and passed the test of self heating test substances are reflected in the UN Manual of test and criteria (33.3.1.3.3) as such the provision of IMDG does not apply.

This certificate refers to analysis only to the those point desribed therein and does not certifiyany other matter
And issued without prejudice.

The above findings are based on tested sample only, this report / certificate is valid within 180 days from the Date of issued

Issued Date : January 06, 2021
PT. SURVEYOR INDONESIA (Persero)



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**MATERIAL SAFETY DATA SHEET
CHARCOAL MSDS**

Section 1: Chemical Product

Chemical Product
General Product : Charcoal
Synonym : Kachi Charcoal, BS Charcoal
Product Description : Charcoal
Cas No : 1333-86-4
CI# : Not available
Chemical Formula : C
Harmony System No : 4402.90.90.00

Section 2: Composition and Information on Ingredients

This product contains nonhazardous material
LD50 : Not available
LC50 : Not available

Section 3: Hazards Identification

Potential Acute Health Effects: Not hazardous in case of skin contact can make the body skin freshness and smoothness. Dust that is in contact with the eyes can cause irritation and the amount is bit much inhaled or ingestion can cause breathing difficulties

Potential Chronic Health Effects:

Carcinogenic effects : Not available
Mutagenic effects : Not available
Teratogenic effects : Not available
Developmental Toxicity : Not available
The substance is toxic to mucous membranes
The substance may be toxic to lungs
Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs

Skin contact: Not available

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available

Section 5: Classes of Goods

IMO CLASS: 4.2**Flammable Solids :**

Spontaneously combustible material which is a liquid or solid that can ignite in room temperature more than 140 in ten(10) minutes below 100⁰C can't combustible.

UN No. 1361

Carbon compounds from the basis of all known life on Earth. Carbon also known provides of the energy. Most forms of carbon are comparatively unreactive under normal conditions. At standard temperature and pressure is not reacted. In higher temperature, the carbon will react.

If material of goods has passed the self heating test for 24 hours examination at 140 Deg Celcius under supervision of reputable independent surveyor, therefore IMDG does not apply in this circumstances.

Section 6: Fire and Exploration Data

Flammability of the Product: Flammable at high temperature

Auto-Ignition Temperature: 452⁰C (845.6⁰F)

Flash point: Not available

Flammable Limits: Not available

Fire Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available

Risks of explosion of the product in presence of static discharge: Not available

Fire Fighting Media and Instruction:

Flammable solid

Small Fire: Use fry chemical powder

Large Fire: Use water spray of fog. Cool containing vessel with water jet in order go prevent pressure build-up, auto ignition or explosion.

Special Remarks on Fire Hazards

Flammable/combustible material may be ignited by high heat, sparks, or flame. May reignite after is extinguished. Freshly prepared material kept in 2-3 (two-three) days may heat spontaneously in air, and presence of water accelerates this.

Section 7: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container

Large Spill:

Spontaneously combustible solid

Stop leak if without risk. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Obtain advice on use of water as spilled material may react with it. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike is needed. Eliminate all ignition sources. Cover with wet earth, and or other non-combustible material. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV, Check TLV on the MSDS and with local authorities.

Section 8: Handling and Storage

Precaution:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents, metals, acids.

Storage:

Store in a segregated and approval area. Keep in a cool and ventilated area away from combustible materials. Keep container in a cool, well-ventilated area. Keep container tightly/closed and sealed until ready for use. Don't store container around the other container which can transmitted heat and also don't put near the boiler. Put on container on top deck position in vessel

Section 9: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Safety glasses, Lab coat, Dust respirator. Be sure to use an approved/certified respirator or equipment. Gloves

Personal Protection in Case a large spill:

Splash glasses, Full suit, Dust respirator, Boots, Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protecting clothing might not be sufficient.

Exposure Limits:

TWA: 3.5 (mg/m³) from ACGIH (TLV) (United States)

TWA: 4 (mg/m³) United Kingdom (UK) Inhalation respirable

TWA: 10 (mg/m³) United Kingdom (UK) Inhalation Total

TWA: 2 (mg/m³) (Canada) Inhalation respirable

Section 10: Physical and Chemical Properties

Physical name and appearance: Solid

Odor: Odorless

Taste: Not available

Molecular weight: 12.01/g mole

Color: Black

pH (1%soln/water): Not applicable

Boiling point: Not available

Melting point: 3500⁰C (6332⁰F)

Critical temperature: 6810⁰C (12290⁰F)

Specific Gravity: 3.51 (water = 1)

Vapor Pressure: Not applicable

Vapor density: Not available

Volatility: Not available

Odor threshold: Not available

Ionicity (in water): Not available

Dispersion properties: Not available

Solubility: Insoluble in cold water, hot water

Section 11: Stability and Reactivity Data

Stability: The Product is stable

Instability Temperature: Not available

Condition of Instability: Heat, Ignition sources (flames, sparks) air, incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, metals, acids

Corrosivity: Non-corrosive in presence of glass

Special Remarks on Reactivity:

Incompatible with air, unsaturated oils, 2-Nitrobenzaldehyde, strong oxidizers such as fluorine and chlorine trifluoride

Special Remarks on corrosivity: Not available

Polymerization: will not occur

Section 12: Toxicological Information
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Routes of Entry:

Inhalation, Ingestion

Toxicity to Animals:

LD50: Not available

LC50: Not available

Chronic effects on Humans:

Causes damage to the following organs: mucous membranes

May cause damage to the following organs: Lungs

Other Tonic Effects on Humans:

Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation

Special remarks on Toxicity on Animals:

Not available

Special on chronic effects on Humans:

May cause adverse reproductive effects

Special remarks on other Tonic effects on Human:

Skin: Not available

Eye: May cause eye irritation

Inhalation: May cause respiratory tract irritation

Ingestion: May cause aspiration pneumonitis, vomiting, decreased

Gastrointestinal transit time, gastrointestinal obstruction, constipation, a charcoal containing empyema, intestinal perforation, charcoal deposits in the esophageal and gastric mucosa, rectal ulcer

Chronic Potential Health Effects:

Skin: chronic skin exposure can result in clogging of hair follicle, rendering them black

Inhalation: chronic inhalation can cause carbon particles to accumulate in the lungs. It may cause a pneumoconiosis called "Black Lung Disease" of "Coal workers pneumoconiosis"

Section 13: Ecological Information

Eco toxicity: Not available

BOD5 and COD: Not available

Products of Biodegradation:

Possibility hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the products of Biodegradation:

The product in self and products of degradation are not toxic

Special remarks on the products of Biodegradation: Not available

Section 14: Disposal Considerations

Waste Disposal:

Waste must be disposal of in accordance with federal, state and local environmental control regulation

Section 15: Transport Information

Special Provision for Transport: Not available

Section 16: Other Regulatory Information

Federal and State Regulation:

Rhode Island RTK hazardous substance charcoal

TSC 8 (b) inventory: charcoal

Other regulation:

OSHA : This Product in nonhazardous under the criteria of the federal OSHA hazard communication standard (29 CFR 1910.1200)

EINECS: this product is on the European of Existing Commercial Chemical Substances

Other Classification:

WHMIS (Canada) Not controlled under WHMIS (Canada)

Section 16: Other Information

Keep away from heat, sparks and flame. Avoid contact with eyes. Avoid breathing dust. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Label First Aid

If inhaled, remove to fresh air. Get medical attention by any Breathing

The sample passed the test of Self Heating Substances as reflected in the UN Manual of Test and Criteria (33.3.1.33) as such the provision of the IMDG does not apply.

Medan. 02 JANUARY, 2019

