COMPANY PROFILE
ARENNUSANTARA

PALM SUGAR

00230125760921

TÜV NORD

NUTRITION FACTS		
Palm Sugar		
SC 21120154?		
Serving size	15 g	
Servings per container	---	
AMOUNT PER SERVING		
Total Energy	**60 kcal**	
Energy from Fat	0 kcal	
Energy from Saturated fat	0 kcal	
		% Daily Value*
Total Fat	0.0 g	0 %
Saturated Fat	0.0 g	0 %
Protein	0 g	0 %
Total Carbohydrate	14 g	4 %
Total Sugar	13 g	
Sodium	0 mg	0 %

*The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2150 Calories a day is used for general nutrition advice.

BADAN POM
BPOM RI MD 251131001720

Kp.CinangkaRT001RW003Kel.GirimuktiKec.
CilograngKab.LebakBanten

INTRODUCTION

Perusahaankamibergerakdalambidang Produksiberbagaimacamgula Aren / Palm Sugar, Palm SugarPowderPremium,PalmSugarPowderEconomi,danPalmSugarCair.Kamimemproduksiberbagaiukurandnkemasandandapatdisesuaikandenganpermintan Konsumen.

Adanyakendalimutuyangketatdisetiapbidang,ARENNUSANTARAmenjunjung tinggi jiwaprofesionalismedalampencapaianmutu dan kualitas dalam pekerjaan,demimemberikankepuasankepadamitra dan pelanggan. Kami Bertekaduntukmemberikansolusidanpelayananyangterbaikbagicustomerkami,kepuasancustomermerupakantolakukuruntuk

- keberhasilanPerusahaankami.

Ourcompanyisengagedintheproductionofvarious kinds ofPalmSugar,Premium Palm Sugar Powder,EconomiPalmSugarPowder,and LiquidPalmSugar.Weproducevarious sizes and packaging and canbetailoredtothedemandsofconsumers.

Withstrictqualitycontrolineveryfield,ARENNUSANTARAupholdsthespiritofprofessionalism in achievingquality and quality in work, in order toprovidesatisfactiontopartnersandcustomers.Wearedeterminedtoprovidethebestsolutionsandservices for our customers, customersatisfactionisabenchmarkforthesuccessofourcompany.

VISI/VISION

MenjadikanPerusahaanProdusenGulaArenyangberkualitas,MenyediakanberbagaijenisUkuran,flesibelberdasarkanpermintaan Konsumen dansenantiasamampubersaingdanberkembangdengancarasehat.

MakingaqualityPalmSugarProducerCompany,Providingvarioustypesofsizes,flexiblebased on consumer demand andalwaysabletocompeteanddevelopinahealthyway.

MISI/MISION

- Memproduksidan menyediakanProduk sesuai dengankebutuhanpelanggandengan memperhatikan aspek kualitasdanmutu.
- Menjalankan kegiatanperusahaandenganstandaretikakejujurandanIntegritasyang baik.
- Menyediakansaranaberkaryauntuk parakaryawandalamsuasana kerja yangprofessional,sejahteradansecaraindividubermartabat
- Bekerja dengan penuhtanggungjawabterhadappelanggan,masyarakatdanlingkungantempatkerja
- Menyediakan hasil kerja usahayang layak danberkesinambungan

- Producingandprovidingproducts according to customerneedsbypayingattention toqualityandqualityaspects.
- Carryoutcompanyactivitieswith good ethical standards ofhonestyandintegrity.
- Providingworkfacilitiesforemployeesinaprofessional,prosperousanddignifiedindividualworkingatmosphere
- Workresponsiblytowardscustomers,societyandtheworkplace
- Providing decent andsustainablebusinessresults

CORPORATECULTUR

1. Fokuspadapelanggan.
2. Disiplin,JujurdanIntegritas.
3. Kerjasamayangsinergi
4. 3K(Keterbukaan,KomunikasidanKordinasi).
5. Kreativitasdanaktualisasi.
6. Belajardanberbagiilmu

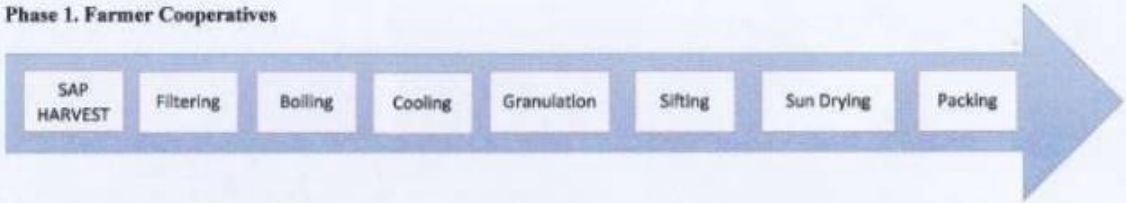
1. Focusoncustomers.
2. Discipline,HonestyandIntegrity.
3. Synergycooperation
4. 3 K(Openness,CommunicationandCoordination).
5. Creativityandactualization.
6. Learnandshareknowledge

FLOWCHART

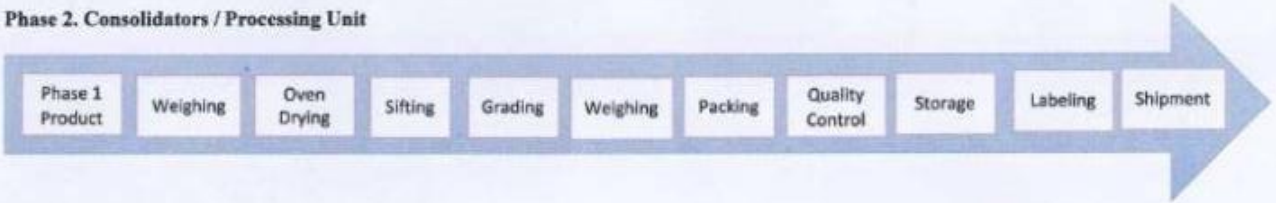
AREN NUSANTARA
Girimukti Cilorgang Lebak Banten

PALM SUGAR FLOWCHART

Phase 1. Farmer Cooperatives



Phase 2. Consolidators / Processing Unit



AREN NUSANTARA
LEBAK BANTEN
10 NOV 2021

FACTORYPRODUCTION

FACTORYPRODUCTION

PRODUCT

- PremiumPowderedPalmSugar.
- EconomiPowderedPalmSugar.
- LiquidPowderedPalmSugar.

PRODUCT

- PremiumPowderedPalmSugar,forexporttoSouth Koreawithaluminumpackagingandboxes(5Kgx4Pcs)

PRODUCT

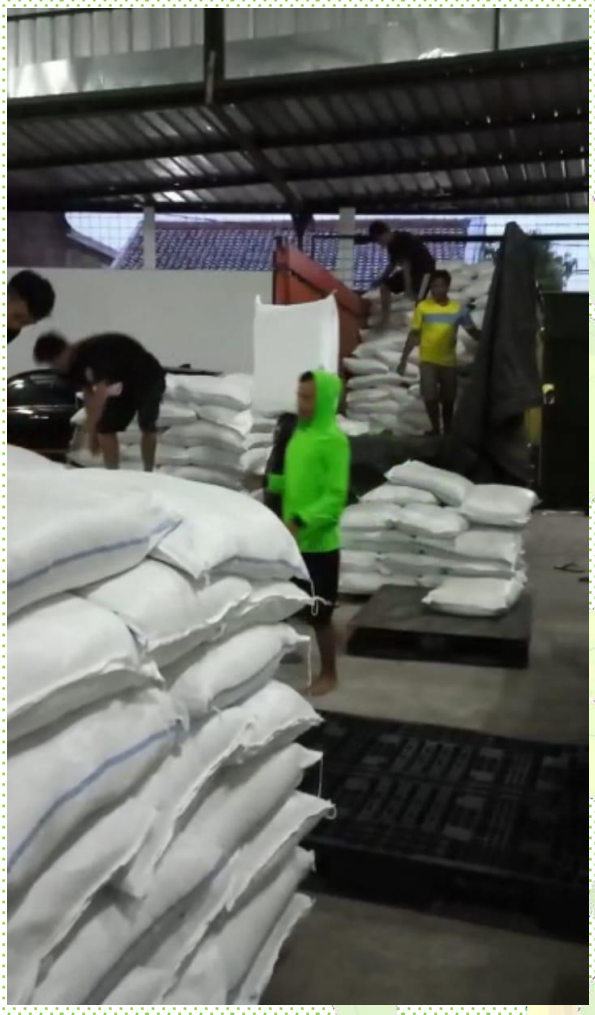
Ourproductsarepackagedintheformof:

1. Bag25kg
2. 5kgpackaging,andpackagingaccordingto consumerdemand.
3. LiquidPalmSugarStandingPouch,JerryCanandBottle.

WAREHOUSE

- OurwarehousesarelocatedintheLebakBulusBanten, andCianjurareas

SHIPMENT



20FTCONTAINER
40FTCONTAINER

LEGALITY

BADAN POM

BADAN PENGAWAS OBAT DAN MAKANAN

Jl. Percetakan Negara No. 23 Jakarta Pusat 10560 Indonesia
Telp. (021) 4244691, 4244819, 42800221; Fax: (021) 4245139, 4245267
e-mail: penilaianpangan@pom.go.id; Website: www.pom.go.id

IZIN EDAR PANGAN OLAHAN
NO. PN.06.05.52.04.22.5114.PKPE/MD/0139

Sesuai dengan Peraturan Kepala Badan Pengawas Obat dan Makanan Republik Indonesia Nomor 27 Tahun 2017 tentang Pendaftaran Pangan Olahan, dengan ini diberikan izin edar pangan olahan :

1.	Nama Jenis Pangan	:	Gula Semut (Gula Aren Bubuk)
2.	Nama Dagang	:	Aren Nusantara
3.	Jenis Kemasan/Isi/Berat bersih	:	Plastik PE (25kg)
4. a.	Nama Produsen	:	AREN NUSANTARA
b.	Alamat Produsen	:	Kp. Cinangka RT.001/RW.003, Kel. Girimukti, Kec. Cilograng Kab. Lebak,Banten

Nomor Izin Edar: **BPOM RI MD 251131001720**

Dengan Ketentuan:

1. Pangan Olahan yang diedarkan wajib memenuhi ketentuan peraturan perundang-undangan.
2. Pangan Olahan yang diedarkan harus menggunakan label sesuai dengan rancangan label yang disetujui sebagaimana terlampir yang merupakan bagian tidak terpisahkan dari Izin Edar ini.
3. Pangan Olahan yang beredar harus sesuai dengan data yang disetujui pada waktu pendaftaran.
4. Badan POM tidak bertanggung jawab atas terjadinya perselisihan terkait penunjukan atau hak kekayaan intelektual dalam penerbitan Izin Edar untuk Pangan Olahan ini. Izin Edar hanya dapat ditinjau kembali setelah mendapatkan keputusan pengadilan yang telah memiliki kekuatan hukum tetap atau kesepakatan antar pihak.
5. Izin Edar ini dapat dicabut sesuai dengan ketentuan peraturan perundang-undangan.
6. Pangan Olahan yang diedarkan berdasarkan perjanjian atau penunjukan dengan masa kerjasama kurang dari 5 (lima) tahun maka masa berlaku Izin Edar sesuai dengan masa berlaku kerjasama.

Diterbitkan	: di JAKARTA
Tanggal	: 05 April 2022
Masa berlaku s/d	: 05 April 2027

a.n. Kepala Badan Pengawas Obat dan Makanan
Direktur Registrasi Pangan Olahan

Ema Setyawati, S.Si, Apt, ME

Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan BSrE

LEGALITY

بسم الله الرحمن الرحيم

مجلس العلماء الاندونيسي

MAJELIS ULAMA INDONESIA

THE INDONESIAN COUNCIL OF ULAMA

KETETAPAN HALAL

اثبات الحلال

HALAL DECREE

No : 00230125760921 الرقم :

إنّ مجلس العلماء الاندونيسي - بعد الاختبارات والبحوث - بالإعتمادعلى فحص المحتويات والإجرأت من

Majelis Ulama Indonesia (MUI), setelah melakukan pengujian dan pembahasan, berdasarkan pemeriksaan yang telah dilakukan oleh (*The Indonesian Council of Ulama, after examining, and discussing the audit result conducted by*) :

LEMBAGA PENGKAJIAN PANGAN, OBAT-OBATAN DAN KOSMETIKA MAJELIS ULAMA INDONESIA (LPPOM MUI)

قرّر بان المنتجات الغذائية أو الأدوية أو مستحضرات التجميل المبين اسمها أدناه حلال حسب متطلبات الشريعة الإسلامية

Menetapkan bahwa produk yang disebutkan namanya di bawah ini adalah **HALAL** menurut Syari'at Islam. (*declare that the product stated below as HALAL according to the Islamic Law.*)

Jenis Produk *Type of Product*	: TERLAMPIR	نوع المنتجات :
Nama Produk *Name of Product*	: TERLAMPIR	اسم المنتجات :
Nama Perusahaan *Name of Company*	: AREN NUSANTARA	اسم الشركة :
Alamat Perusahaan *Company's Address*	: KAMPUNG CINANGKA RT. 001 / RW. 003, KELURAHAN GIRIMUKTI, KECAMATAN CILOGRANG, LEBAK, INDONESIA	عنوان الشركة :
Dikeluarkan di Jakarta pada *Issued in Jakarta on*	: 08 SEPTEMBER 2021	اصدرت هذه الشهادة بجاكرتا في :
Berlaku sampai dengan *Valid until*	: 07 SEPTEMBER 2023	وصالحة إلى :

مادامت تركيبات المواد المشرابها وعملية انتاجها ونظام ضمان الحلال(HAS 23000) مطابقة على الشكل الذي قرره قسم الإفتاء بالمجلس

selama bahan-bahan, proses produksi, dan Sistem Jaminan Halal (HAS 23000) yang diterapkan sesuai dengan keputusan Komisi Fatwa MUI.

as long as the ingredients, production process, and the implementation of Halal Assurance System (HAS 23000) are in accordance to the decree of Fatwa Commission of the Indonesian Council of Ulama.

مديرة لجنة البحوث في الآ طعمة و الآ دويه
ومستحضر ات التجميل بالمجلس

رئيس قسم الإفتاء بالمجلس

KETUA KOMISI FATWA MUI
HEAD OF THE FATWA COMMISSION OF MUI

Prof. Dr. H. HASANUDDIN AF, MA

الرئيس العام للمجلس

KETUA UMUM MUI
CHAIRMAN OF MUI

KH. MA'RUF AMIN

LEMBAGA PEMERIKSA HALAL
HALAL ASSESSMENT AGENCY
DIREKTUR EKSEKUTIF LEMBAGA PENGKAJIAN PANGAN, OBAT-OBATAN DAN KOSMETIKA MAJELIS ULAMA INDONESIA
EXECUTIVE DIRECTOR OF THE ASSESSMENT INSTITUTE FOR FOODS, DRUGS AND COSMETICS OF MUI (LPPOM MUI)

LP-POM MUI

Ir. Hj. MUTI ARINTAWATI, M.Si.

Gedung Majelis Ulama Indonesia Lt. III, Jl. Proklamasi No. 51, Menteng, Jakarta Pusat 10320 Telp. : 62-21-391.8917 (Hunting), 319.02666 Fax. : 62-21-392.4687 Website : www.halalmui.org

بسم الله الرحمن الرحيم

مجلس العلماء الاندونيسي

MAJELIS ULAMA INDONESIA

THE INDONESIAN COUNCIL OF ULAMA

مرفقة لاثبات الحلال

LAMPIRAN KETETAPAN HALAL

THE ATTACHMENT OF HALAL DECREE

No : 00230125760921 الرقم :

Nama Perusahaan *Name of Company*	: Aren Nusantara	اسم الشركة :
Nama Pabrik *Name of Factory*	: Pabrik Aren Nusantara	اسم المصنع :
Alamat Pabrik *Factory's Address*	: Kp. Cinangka RT. 001/ RW. 003, Kel. Girimukti, Kec. Cilograng, Kab. Lebak, Prov. Banten	عنوان المصنع :
Kelompok Produk *Groups of Product*	: Pemanis	مجموعة المنتجات :
Jenis Produk *Type of Product*	: Gula	نوع المنتجات :
Nama Produk *Name of Product*	: (Tabel)	اسم المنتجات :

1	Gula Aren Semut Murni Aren Nusantara
2	Gula Cetak Aren Nusantara
3	Gula Aren Cair Aren Nusantara
4	Gula Aren Plus Jahe Aren Nusantara
5	Gula Aren Plus Jahe dan Kunyit Aren Nusantara
6	Sirup Gula Aren

Berlaku sampai dengan *Valid Until*	: 07 September 2023	وصالحة إلى :
Dikeluarkan di Jakarta pada *Issued in Jakarta on*	: 08 September 2021	أصدرت هذه الشهادة بجاكرتا في :

مديرة لجنة البحوث في الآ طعمة و الآ دويه
ومستحضر ات التجميل بالمجلس

LEMBAGA PEMERIKSA HALAL
HALAL ASSESSMENT AGENCY
LEMBAGA PENGKAJIAN PANGAN, OBAT-OBATAN DAN KOSMETIKA MAJELIS ULAMA INDONESIA
THE ASSESSMENT INSTITUTE FOR FOODS, DRUGS AND COSMETICS OF MUI (LPPOM MUI)
DIREKTUR EKSEKUTIF / *EXECUTIVE DIRECTOR*

LP-POM MUI

Ir. Hj. MUTI ARINTAWATI, M.Si.

Gedung Majelis Ulama Indonesia Lt. III, Jl. Proklamasi No. 51, Menteng, Jakarta Pusat 10320 Telp. : 62-21-391.8917 (Hunting), 319.02666 Fax. : 62-21-392.4687 Website : www.halalmui.org

LEGALITY

TÜV NORD Indonesia

TEST REPORT

No.: T.44

Certificate No
No. Sertifikat: CERT.2112048188

Sample code
No. Kode Contoh: SC.211201547

Customer
Pelanggan: AREN NUSANTARA
KP. Cinangka RT 001/ RW 003, Kel. Girimukti, Kec. Cilograng
Kab. Lebak Banten
Indonesia

Subject
Sample: Palm Sugar
Code : ANS-SC-21110022
Prod Date : 22.10.2021
Exp Date : 22.10.2024

Sample Description
Keterangan contoh: Metalized plastic

Priority
Prioritas: Normal

Received Date
Tanggal Terima: December 10, 2021

Finished Date
Tanggal Selesai: December 23, 2021

Remarks
Catatan

Approved by
Disetujui oleh

Digitally signed by:
Ditandatangani secara digital oleh:

Kartika, S
Technical Manager
Date : December 23, 2021

Page 1 from 2

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TÜV NORD Indonesia

TEST REPORT

No.: T.44

Certificate No
No. Sertifikat: CERT.2112048188

Sample code
No. Kode Contoh: SC.211201547

PARAMETERS	UNITS	RESULTS	METHOD
Carbohydrate	%	93.29	MU-01-07 (By Difference)
Calories	Calorie/100 g	386.65	By calculation
Protein (N x 6.25)	%	2.45	MU-01/04 (Kjeldahl)
Fat	%	0.41	MU-01_02 (Hidrolisis-Ekstraksi-Gravimetri)
Total Sugar	%	87.41	SNI 01-2892-1992 Butir 4.1
Sodium (Na)	mg/100g	4.01	MU-03_21(AAS-Flame) Butir 7
Saturated Fat (SAFA)	%	0.19	MU-03_19 (GC-FID)

Approved by
Disetujui oleh

Digitally signed by:
Ditandatangani secara digital oleh:

Kartika, S
Technical Manager
Date : December 23, 2021

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Fax +62 61 80101301

LEGALITY

TÜV NORD Indonesia

TEST REPORT

No.: .T.44

Certificate No
No. Sertifikat: CERT.2111041030.Rev2

Sample code
No. Kode Contoh: SC.211003308

Customer
Pelanggan: AREN NUSANTARA
Asep Kurnia
KP. CINANGKA RT 001/ RW 003, Kel. Girimukti, Kec. Cilograng
Kab. Lebak Banten
Indonesia

Subject
Sample: Palm Sugar
SC-ANS21100022
Prod. Date : 22-10-21
Exp. Date : 22-10-24

Sample Description
Keterangan contoh: Plastic Bottle

Priority
Prioritas: Normal

Received Date
Tanggal Terima: October 26, 2021

Finished Date
Tanggal Selesai: November 12, 2021

Remarks
Catatan: LOD Na-benzoate = 1.89 mg/kg; Na-cyclamate = 4.78 mg/kg; Zn = 0.1 mg/100g; Pb = 0.08 mg/kg; Cd = 0.02 mg/kg; Hg = 0.02 mg/kg; As = 0.10 mg/kg; Sn = 0.25 mg/kg

Approved by
Disetujui oleh

Digitally signed by:
Ditandatangani secara digital oleh:

Kartika. S
Technical Manager
Date : November 12, 2021

Page 1 from 3

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0457c033

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Tel +62 61 80101314
Fax +62 61 80101301

TÜV NORD Indonesia

TEST REPORT

No.: .T.44

Certificate No
No. Sertifikat: CERT.2111041030.Rev2

Sample code
No. Kode Contoh: SC.211003308

PARAMETERS	UNITS	RESULTS	METHOD
Total Sugar as saccharose	%	86.05	SNI 01-2892-1992 Butir 4.1
Zinc (Zn)	mg/100g	Not Detected	MU-03_60 (ICP-OES) Butir 7
Cuprum (Cu)	mg/kg	3.08	MU-03_59(ICP-OES)
Lead (Pb)	mg/kg	Not Detected	MU-03_61 (ICP-OES)
Mercury (Hg)	mg/kg	Not Detected	MU-03_61 (ICP-OES)
Cadmium (Cd)	mg/kg	Not Detected	MU-03_61 (ICP-OES)
Arsenic (As)	mg/kg	Not Detected	MU-03_61 (ICP-OES)
Tin (Sn)	mg/kg	Not Detected	MU-03_61 (ICP-OES)
Total Plate Count	cfu/g	1.2×10^2	ISO 4833.1 : 2013 (Pour Plate)
Escherichia coli	MPN/g	< 3	SNI ISO 7251:2012

Approved by
Disetujui oleh

Digitally signed by:
Ditandatangani secara digital oleh:

Kartika. S
Technical Manager
Date : November 12, 2021

Page 3 from 3

This test results related to the samples submitted only
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0457c033

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Medan Representative Office
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Tel +62 61 80101314
Fax +62 61 80101301

Indonesia

TEST REPORT

No.: T.44

Certificate No
No. Sertifikat: CERT.2111041030.Rev2

Sample code
No. Kode Contoh: SC.211003308

PARAMETERS	UNITS	RESULTS	METHOD
Odor	-	Normal	SNI 01-2891-1992 Butir 1.2
Taste	--	Normal	SNI 01-2891-1992 Butir 1.2
Color	--	Normal	Visual
Appearance	-	Normal	Visual
Calories	Calorie/100 g	387.43	By calculation
Carbohydrate	%	94.35	MU-01-07 (By Difference)
Protein (N x 6.25)	%	1.99	MU-01/04 (Kjeldahl)
Fat	%	0.23	MU-01_02 (Hidrolisis-Ekstraksi-Gravimetri)
Ash	%	2.14	SNI 01-2891-1992 Butir 6.1
Moisture	%	1.29	SNI 01-2891-1992 Butir 5.1
Sodium benzoate	mg/kg	Not Detected	MU-03_03(HPLC-DAD)
Na Cyclamate	mg/kg	Not Detected	MU-03_32 (HPLC-DAD)

Approved by
Disetujui oleh

Digitally signed by:
Ditandatangani secara digital oleh:

Kartika. S
Technical Manager
Date : November 12, 2021

Page 2 from 3

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LEGALITY

TUV NORD Indonesia

NUTRITION FACTS

Palm Sugar
SC.211201547
Serving size : 15 g
Servings per container : ---

AMOUNT PER SERVING

Total Energy	**60 kcal**	
Energy from Fat	0 kcal	
Energy from Saturated fat	0 kcal	
		% Daily Value*
Total Fat	**0.0 g**	**0 %**
Saturated Fat	**0.0 g**	**0 %**
Protein	**0 g**	**0 %**
Total Carbohydrate	**14 g**	**4 %**
Total Sugar	**13 g**	
Sodium	**0 mg**	**0 %**

*The % Daily Value (DV) tells tou how much a nutrient in a serving of food contributes to a daily diet 2150 Calories a day is used for general nutrition advice.

Approval
Disetujui oleh

Kartika S
Technical Manager
Date : December 23, 2021

F: Ayu Nawangsari/ooS

December 23, 2021

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TÜV NORD GROUP

SAFETYDATASHEET

AREN NUSANTARA

SAFETY DATA SHEET

RAW SUGARS/PALM SUGARS

Version No.: 1.0
ISSUED Date: 10/08/2021
ISSUED BY Aren Nusantara

1. IDENTIFICATION

GHS Product Identifier
RAW SUGARS/PALM SUGARS

Product Code
01- PALM SUGAR

Company Name
Aren Nusantara

Address
Cinangka Village, Lebak
City Indonesia 42352

Telephone/Fax Number
Tel: -
Fax: -

Recommended use of the chemical and restrictions on use
As a sweetener or ingredient in food processing and food preparation.

Other Names

Name	Product Code
PALM SUGAR	01

Other Information
This Material Safety Data Sheet (MSDS) is issued by the Supplier in accordance with the Code and guidelines from the National Agency of Drug and Food Control Indonesia (BPOM). The information in it must not be altered, deleted or added to. The Supplier will not accept any responsibility for any changes made to its MSDS by any other person or organization. The Supplier will issue a new MSDS when there is a change in ASCC standards, guidelines, or regulations and/or a material change in product specifications.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture
Not classified as Hazardous according to National Agency of Drug and Food Control, Indonesia.

Other Information
This product is a well known ingredient in food and beverages and this Safety Data Sheet is concerned only with occupational exposures.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Sucrose	57-50-1	>85 %

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4. FIRST-AID MEASURES

Inhalation
Not considered a potential route of exposure. However, if inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion
Unlikely to cause adverse effects. If ingested in large amounts and symptoms develop seek medical attention.

Skin
Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye contact
If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

First Aid Facilities
Eyewash and normal washroom facilities.

Advice to Doctor
Treat symptomatically. People with diabetes may need stabilisation.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Water, dry chemical, carbon dioxide and foam.

Hazards from Combustion Products
Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.

Specific Hazards Arising From The Chemical
Airborne sugar dust can explode under certain conditions of temperature and humidity and in the presence of an ignition source when the concentration exceeds 25 grams per cubic metre. Intrinsically safe dust extraction systems, cleaning procedures, electrical earthing and other safety measures must be used to avoid the risk of explosion.

Decomposition Temperature
Not available

Precautions in connection with Fire
Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat- exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

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6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures
Remove all sources of ignition. Increase ventilation. Evacuate all unprotected personnel. Do not breathe dust. Wear respiratory protection and full protective clothing to minimise exposure. Sweep up material avoiding dust generation - dampen spilled material with water if suitable to avoid airborne dust, OR where possible use dustless methods such as vacuum to collect the material; then transfer material in to suitable vapour tight labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Material can ferment if excessive moisture contamination is allowed. Fermentation can yield carbon dioxide with possible traces of ethanol or volatile fatty acids (e.g. acetic, propionic, lactic, or butyric) and if exposed to a spark or flame may result in an explosion. These conditions should be avoided. Airborne sugar dust can explode under certain conditions. Refer to Section 5: Fire Fighting Measures: Specific hazards. If maintenance of a storage bin / vessel requires entry by personnel, confined space precautions should be complied with. Insufficient oxygen may be present in vessels containing the product due to the generation of gases during fermentation.
Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Avoid inhalation of dust, and skin or eye contact. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Maintain high standards of personal hygiene ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatabilities
This product should be stored in its factory packaging in a cool, dry, well ventilated area, away from sources of ignition, oxidising agents and out of moisture. Keep containers closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values
No exposure standards have been established for this material, however, the TWA exposure standards for dust not otherwise specified is 10 mg/m³. As with all chemicals, exposure should be kept to the lowest possible levels. TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week, Source: Safe Work Australia

Biological Limit Values
No biological limits allocated.

Appropriate Engineering Controls
Use with good general ventilation.

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Respiratory Protection
Generally not required.
Industrial applications: If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Eye Protection
Not required under normal conditions of use. However, avoid eye contact.
Industrial Applications: Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/ face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Hand Protection
Not required under normal conditions of use.
Industrial Applications: Wear gloves of impervious material (such as PVC coated fabric). Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Body Protection
Industrial applications: Suitable protective workwear, e. g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form
Powder

Appearance
Crystals

Colour
Dark brown

Odour
Sweet odour

Decomposition Temperature
Not available

Melting Point
130-186°C

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Boiling Point
Decomposes with heat

Solubility in Water
2 kg per litre

Specific Gravity
1.59

pH
Not available

Vapour Pressure
Not applicable

Vapour Density (Air=1)
Not applicable

Evaporation Rate
Not applicable

Odour Threshold
Not available

Viscosity
Not applicable

Partition Coefficient: n-octanol/water
Not available

Flash Point
Not applicable

Flammability
Combustible

Auto-Ignition Temperature
500°C

Explosion Limit - Upper
Not available

Explosion Limit - Lower
25-45 g/m³

Other Information
For further information refer to Sugar Australia's 'White Sugar Properties'.

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10. STABILITY AND REACTIVITY

Reactivity
Reacts with incompatible materials.

Chemical Stability
Stable under normal conditions of storage and handling.

Conditions to Avoid
Heat, open flames and other sources of ignition.

Incompatible materials
Incompatible with oxidising agents.

Hazardous Decomposition Products
Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen. Ethanol or volatile fatty acids (e.g. acetic, propionic, lactic, or butyric) if fermentation occurs.

Hazardous Polymerization
Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral
Non-toxic - a foodstuff
Sucrose: LD50 (rat): 29,700 mg/kg

Ingestion
No health effects under normal conditions of industrial use, but ingestion may destabilise people with diabetes.

Inhalation
Inhalation of dusts may irritate the respiratory system. Repeated exposure to the powder and dust may result in increased nasal and respiratory secretions and coughing, but not irreversible health effects.

Skin
Skin contact may cause mechanical irritation resulting in redness and itching. Repeated skin contact may cause dermatitis.

Eye
May be irritating to eyes. The symptoms may include redness, itching and tearing.

Respiratory sensitisation
Not expected to be a respiratory sensitiser.

Skin Sensitisation
Not expected to be a skin sensitiser.

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Germ cell mutagenicity
Not considered to be a mutagenic hazard.

Carcinogenicity
Not considered to be a carcinogenic hazard.

Reproductive Toxicity
Not considered to be toxic to reproduction.

STOT-single exposure
Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure
Not expected to cause toxicity to a specific target organ.

Aspiration Hazard
Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Non- toxic to aquatic and terrestrial organisms. Sucrose is an oxygen depleting substance in aquatic environments.

Persistence and degradability
Not available

Mobility
Not available

Bioaccumulative Potential
Not available

Environmental Protection
Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal considerations
Product can be treated as a common waste for disposal to an organic recycler or into a landfill site in accordance with relevant Authority guidelines. Note Biochemical Oxygen Demand load of sugar solutions in waste water streams.
Return product to supplier for reuse / recycling if possible. Consult supplier for recycling options. Recycle containers if possible, or dispose of in an authorised landfill. Transportation of wet sugar waste may require Waste Transport Certification.
The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

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Transport Information
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

U.N. Number
None Allocated

UN proper shipping name
None Allocated

Transport hazard class(es)
None Allocated

IMDG Marine pollutant
No

15. REGULATORY INFORMATION

Regulatory information
Not classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Indonesia.
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule
Not Scheduled

Indonesia(AICS)
All components of this product are listed on the Inventory or exempted.

16. OTHER INFORMATION

Date of preparation or last revision of SDS
SDS Reviewed: January 2021
Supersedes: February 2020

References
Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
Standard for the Uniform Scheduling of Medicines and Poisons.
Indonesia Code for the Transport of Dangerous Goods by Road & Rail.
Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Workplace exposure standards for airborne contaminants, Safe work Australia.
American Conference of Industrial Hygienists (ACGIH).
Globally Harmonised System of classification and labelling of chemicals.

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Contact Person/Point
For further information on this product, please contact the following:
Aren Nusantara
+62 87708423501

Other Information
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END OF SDS

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