# 白腊規格

# TYPICAL PROPERTIES

# Fully Refined Paraffin Wax Paraffin wax is a mixture consisting Hardness is such that it can be scarred with nails Extremely low volatility Mets at about 40-70°C

mostly of straight chain hydrocarbons,

Wiscopity in the molten state is extremely low

Burns clean without emitting harmful gas with about 20-35 carbons in the molecule and a molecular weight of about 300-500. General properties are:

- # Great moleture proofing, water proofing and
- scent-preserving

  Latent heat of fusion is high enough to use it as heat storage materials

  Tasteless and odorless
- Biodegradable

	m biodegradaoie									
			V	V		J		1		V
item Grade		155/160°F ASTM	150/165°F AST M	140/145°P ASTM	140/145°F ABTM	135/140°F ABTM	130/135'F ASTM	125/130°F ASTM	120/125T ASTN	116/120T ASTM
Melting Point	خ (۴)	69.3 (157)	66.5 (152)	61.3 (142)	61.7 (143)	58.7 (138)	56.7 (134)	52.6 (127)	49.4 (121)	47.2 (117)
Oil Content (ASTM 0721)	mass%	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.5
Color Saybolt (ASTU DISS)		+30	+30	+30	+30	+30	+30	+30	+30	+30
Penetration (ASTM 01321)	0.1mm at25C at35C	13	14 19	11	12 19	12 20	13 18	17	20	30
Specific Gravity	g/cm² at70°C	0,783 at80°C	0,779 at80°C	0.777	0.779	0,775	0.774	0,771	0,789	0,769
Odor & Taste		Nil	NII	Na	Nii	Nil	NII	Nil	Nij	Nil
Flash Point(C.O.C.)	ع ع	284	261	238	235	234	220	212	212	202
Ultraviolet	FDA 172,836	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

# APPLICATION:

Hotmeit Adhesives	0	0	0	0					
Paper Cups			0	0	0	0	0		
Plastics Lubricants	0	0							
Paper Converting	0	0	0	0	0	0	0		
Rubber Antiozonant	0	0		0	0				
Pollah			0	Ö	0				
Cosmetic & Pharmaceutical	0	0	0	0			0		
Candles			0	0	0	0			
Water-Proof Corrugated Paperboard					0	0	0		
Ohlorinated Paraffin							. 0	0	
Matches							0	0	0
Rust Preventive								0	0
Plywood,	-						0	O	0
Textiles				1	0	0	0		

# 2

# 当社製品の特性

# A.バラフィンワックス

パラフィンワックスの製造で最も重要なことはワックス分の 結晶化の方法とその分離です。 古社はこの工程に他に例をみな い多数式プレス発行法と近代的な溶剤促油法を組みあわせた他 自の製造法で多品種にわたる製品を製造し、世界に誇るパリエーションを有しております。

# 11 標準品

標準量は確認の違いにより次の製品があります。

#### ▼代表特件

5.0

		整	点.	油金	*	入废 "	粘度	色幅	- 東京	2/47	部火部	平均分子量
A	2	'0	(F)	mass%	25'0	35°C	mading C	拉一批小市	25°C	700C	10 1/2	(ガスタコ油)
	155	69	(156)	0.2	15	20	6.4	+30	0.927	0.783	262	472
	150	66	(151)	0.2	14	20	5.6	+30	0,925	0.784	258	458
	40	61	( 42)	0.2	11	17	4.1	+30	0.920	0.776	242	404
	135	58	(135)	0.3	13	21	3.9	+30	110.0	0.775	234	389
-	130	55	(131)	0.3	14	32	3.8	+30	802.0	0.772	228	373
	125	53	(127)	0.3	17	59	3.3	+30	0.902	0.771	222	361
	120	50	(122)	0.3	23	83	3.[	+30	0.901	0.769	212	344
_	115	47	(117)	0.5	30	90	3,0	+30	0.900	0.768	208	338

<sup>※</sup>以上の製品は、日本ワックス工業会の目室・規制基準に適合しております。

#### ▼主な用途

ローソク・加工紙・耐水酸ボール・ゴム老訪剤・ホットメルト接着剤・塩素化パラフィン・ 繊維加工助剤・インキ・マッチ・化粧品・食品模型・蓄熱材・その他。

#### 2 特製品

標準品の製造法を変えて製造するパラフィンロックスを特製 品といい、HNP、SP、EMWの3シリーズがあります。

# a. HNP系列品

この柔列品は高純度管製パラフィンワックスのことで従来の パラフィンワックスに比較して

# ●融点が高い。

②直鎖状炭化水素の比率が高いた多硬くて耐煙耗性に優れて いる。

③炭素数分布が狭いため感温性に優れている。

等の特性があります。

#### ▼代表特性

- 4	糖	点	油分	27	入宴	神原	配稿	- 李宗	s/ar	、別火点	平均分子量
品 名	°C	(°F)	mass %	25°C	35°C	(5001)a/ts	十八九一世	55,C	8010	2	(ガスクロ法)
HNP-3	64	(147)	0.1	6	10	5.3	+30	0.924	0.774	254	512
HNP-5	62	(144)	0.1	4	6	7.6	+30	0.923	0.778	240	427
HNP-9	75	(167)	0.	7	(0	6.9	+30	0,926	0.780	304	518
HNP-ID	75	(157)	Q.1	6	10	7.9.	+30	0,926	0.782	304	592
HNP-II	68	(154)	0.1	7	13	4.3	+30	0.925	0.774	260	447
HNP-12	67	(152)	0.1	5	10	6.8	+30	0.925	0.776	260	524
HNP-14G	69	(156)	0.1	4	7	10.0	+26	0.922	0.783	263	468

#### ▼主な用途

然転写インキ・ホットメルト接着側・磨熱紙・トナー・農薬・脱料・その他。

# 白腊檢驗報告



# NIPPON SEIRO CO., LTD.

NO.

MANUFACTURERS: PARAFFIN WAX MICROCRYSTALLINE WAX NO. 22-15, SHINKAWA 1-CHOME, CHUO-KU TOXYO 104-0033, JAPAN TEL:TOKYO (03) 3523-3536 TELEFAX: (03) 8523-8306

133 16 37

TO WHOM IT MAY CONCERN:

GENTLEMEN:

QUALITY CERTIFICATE 

COMMODITY

: PARAFFIN WAX-FULLY REFINED \*\*\*

QUANTITY

1,344 KGS

NO. OF PACKAGING

: 2 PALLETS

SHIPPING DATE

: DEC.15,2007

VESSEL

: HALCYON

LOT NO.

: 0032L07

MELTING POINT °C :

(°F) (ASTM D87)

61.6 142.8 (

OIL CONTENT MASS% : (ASTM D721)

0.19

AT 25°C

PENETRATION

(ASTM D1321)

11

COLOR

(ASTM D156)

+30

U.V.ABSORBANCE (FDA 178.3710(B)) PASS

ORDER NO

: NS-089

: \*\*\* MELTING POINT: 140/145F ASTM

NIPPON SEIRO CO. LID:

1274100

# 硬脂酸(植物性)



# PALM-OLEO SDN.BHD. (180888-V)

(A subsidiary of Kuala Lumpur Kepang Berhad)

Lot 1246, Kundong Industrial Satate, 48020 Rawang, Solangor Darul Ensan, Malayela. Ter No.603-50344500 Fax No.503-50341279/2340

# MATERIAL SAFETY DATA SHEET

0 8 MAR 2008

1, IDENTIFICATION OF THE SUBSTANCE/ PREPARATION COMPAN

Identification of the product

Product Name

PALMERA BIGOT TRIPLE PRESSED STEARIC ACID BEAD

Trade Name

Palmera 51800, Palmera 51801, Palmera 51802, Palmera 61803, Palmera 61810, Palmera A7018, Palmera A6518, Palmera A6518, Palmera A4018, Palmera A6015, Palmera A5516

Synonyms

Not applicable

LIC NO

8AQQH2001787-567

Company / Undertaking Identification

Manufacturer

Palm-Oleo Sdn. Bhd.

Address

Lot 1245 Kundang Industrial Estate,

48020 Rawang, Selangor Darul Ehsan,

Malaysia.

Web page

: www.kikoleo.com.my

2. COMPOSITION / INFORMATION ON INGREDIENTS

Composition

Chemical Formula CAS No. EC No. EC ECRphrase

Hexadecanoic Acid

C<sub>16</sub>H<sub>32</sub>O<sub>2</sub>/ CH<sub>3</sub>(CH<sub>2</sub>)<sub>14</sub>COOH C<sub>18</sub>H<sub>36</sub>O<sub>2</sub>/ CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>COOH

266-928-5 67701-03-5

Symbol Not Not Applicable Applicable

Octadecanoic Acid

3. HAZARDS IDENTIFICATION

Special hazards for man and environment

None.

4. FIRST AID MEASURES

After skin contact

Remove contaminated clothing, flush skin with water or shower, take to a

doctor if necessary.

After eye contact

Flush with water, take to a doctor if necessary.

After inhalation

Not relevant.

After ingestion

Rinse mouth, drink plenty of water, see physician. Do not give anything by

mouth to an unconscious person.

Page No.: 1 of 3

# MATERIAL SAFETY DATA SHEET

# 5. FIRE FIGHTING MEASURES

Extinguisher Media

Dry powder, carbon dioxide or foam, water spray jet.

Special Hazards

Liquid product may have temperature exceeding 50 °C

# S. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with skin and eyes.

Environment precautions

Do not allow to flow into drainage system.

Methods for cleaning up

Collect leakage in sealable containers, soak up with sand or other inert absorbent and remove to safe place. Wash site with addium bicarbonate solution or soda ash. Can also allow spillage to solidify, then shovel into

containers. Clean up area immediately.

#### 7. HANDLING AND STORAGE

Handling

Avoid open flames.

Use gloves and wear goggles when handling.

Always work safely around open hatches on bulk tanks. The low density makes flotation difficult for immersed person.

Storage

Keep in a cool and dry place, avoid extreme heat and cold. Store in clean, dry preferably stainless steel vessels. In bulk, store at about 5-10 °C above meiting point or ambient. Temperature higher than necessary degrades quality at rates dependent on time and temperature of exposure

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit

Not applicable

Personal Protective

Equipment

Use rubber gloves

Hand / Skin protection Eyes protection

Wear approved safety goggles and face shield.

Industry Hyglene

Normal standard of industrial hygiene be observed.

# 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance Odour

Solubility

Waxy, white crystalline solids

Slight bland like odour

Soluble in ethanol, ether and most organic solvent

Insoluble in water (20 Deg C) > 300

Boiling Point, at 760 mm l lg (°C) Melting Point (°C)

55-60 Flash Point (°C) (Pensky-Kartens Closed

> 200

> 250

0.85

Auto-Ignition (°C)
Density, at 75 °C (g/ml)
Vapour Pressure, mm of Hg at 131 °C Viscosity, mPa.s at 65°C

< 1.0 8.04

Page No.: 2 of 3

# MATERIAL SAFETY DATA SHEET

Conditions to be avoided	Avoid direct fire.					
Materials to be avoided	None known if used for its intended purpose.					
Decomposition products	None known if used for its intended purpose.					
11. TOXICOLOGICAL INFORMATION						
Toxicity Data	LD 50 (cral, rat) = > 10000 mg/kg					
Carcinogenicity	None					
Reproductive Effect	No harmful effects expected					
Effect of Overexposure	No harmful effects expected					
Chronic Effect	No harmful effects expected					
Target Organs	Not Applicable					
Medical conditions generally aggravated by exposure	No special requirements					
12. ECOLOGICAL INFORMATION						
Ecotoxicity	Acute fish toxicity: LC 50 > 100 mg product/liter Acute bacteria toxicity: EC 50 > 100 mg product/liter					
Biodegradability	Biodegradable					
13. DISPOSAL CONSIDERATIONS						
Disposal method is in accordance with all	applicable national environment laws and regulations.					
14. TRANSPORT INFORMATION						
Net a hazardous material according to RIC	D/ADR, GGVS/GGVE, ADNR, IMDG, ICAO-TI / IATA-DGR.					
13. REGULATORY INFORMATION						
All components of these products are liste	d on the following inventorles: IEGS/ELINCS) and Australia (AICS)					

Disclaimer: The information provided is based upon our best knowledge at the time that this safety data sheet was published. The information is believed to be accurate and is given in all good faith. The references to the legislative, regulatory and codes of practice documents must not be considered as exhaustive. Physical and chemical data contained in this MSDS are provided only for use as a guide in assessing the hazardous nature of the material. It does not represent a guarantee of the properties of the product. For further additional information you may contact us at the following email address: <a href="englished-legislation-regular

PALM-OLEO SON. BHD.

ANBAZHAGAN Lab Supervisor

WW.

Page No.: 3 of 3

# sonneborn

REFINED PRODUCT:

Issued: 6/30/2008

# Specifications for CARNATION® White Mineral Oil

PROPERTIES GUARANTEED	TEST METHOD	LIMITS
Specific Gravity @ 25°C/25°C	ASTM D4052	0.829/0.859
Kin. Viscosity @ 40°C, mm <sup>2</sup> /s	ASTM D445	10.8/13.6
Acidity	USP (current revision)	PASS
Readily Carbonizable Substances	USP (current revision)	PASS
Solid Paraffin	USP (current revision)	PASS
Limit Of Polycyclic Aromatic Hydrocarbons	USP (current revision)	PASS
Limit Of Sulfur Compounds	USP (current revision)	PASS
Residual Solvents, Reportable Quantity	USP 467	None
Odor	LATM 092	NONE
Color, Saybolt	ASTM D156	30 Min.
Breakdown Time, Minutes	LATM 017	45 Min.
Appearance	LATM 127	BRIGHT & CLEAR

This product is a Light Mineral Oil NF meeting requirements for National Formulary (current revision) and Food and Drug Administration requirements as per 21 CFR 172.878 and 21 CFR 178.3620(a).

03070612A

13803

The information contained iterein is correct to the best of our knowledge. Your attention is directed to the pertinent Material Safety Data Sheets for the products mentioned herein. All sales are subject to Sonneborn's standard terms and conditions of sale, copies of which are synalphie upon request and which are part of Sonneborn's invoices and/or order acknowledgments. Except as expressly provided in Sonneborn's standard terms and conditions of sale, no warranty, express or implied, including warranty of merchantesitility or finess for perticular purpose. Is made with respect to the products described herein. Nothing contained herein shall constitute permission or recommendation to practice any invention covered by a patent without a license from the owner of the patent.

Sonneborn, Inc. 575 Corporate Drive Suite 415 Manwah, NJ 07430 Technical Service 877.541.7144 Customer Service 877.948.2688 Fax 724.756.9386 www.sonnetorn.com

# MATERIAL SAFETY DATA SHEET

1. Trade Name : PRE-7070-P

2. Chemical Name : Glycerine Monostearate

CAS No.: 31566 - 31 - 1

3. Manufacturer: 6-2 jesan-ri, kangnea-myun, chungwon-kun, choungbuk, korea

IL SHIN WELLS CO., LDT

TEL: (043)231-8910-2 Fax No.: (043)231-9666

4. Description: PRE - 7070 - P consist of monoester of fatty acid with glycerine

# 5. Physical and Chemical Properties

Appearance : White powder

Odor : Bland

Specific Gravity : 0.913 ( at  $80^{\circ}\text{C}$  Boiling Point :  $259^{\circ}\text{C}$  at 10mmHg)

Fire Point : 245℃ Flash Point : 215℃

Solubility: insoluble in water, soluble in oil

# 6. Hazards

PRE - 7070 - P is not classified as dangerous materal according to the USor EEC regulation

# 7. Fire Hazard and Fighting

Combustible but presents no special hazard Treat as an oil fire : Do not use water jet.

Extinguish with carbon dioxide, dry powder or foam.

# 8. Physiological and Health Hazard Data

Oral toxicity: non-toxic - food additive Skin irritation: not expected to be an irritant. Eye irritation: not expected to be an irritant

# 9. Emergency and First Aid Data

Eye: Flush eyes with pure water to remove

Skin: Wash skin soap and water

# 10. Stability and Reactivity

Thermal Decomposition : Stable under normal condition of use

Decompose to fatty acid and glycerol if heated to > 170°C

for long periods

Hazardous Reactions: None under normal condition of use

#### 11. Personal Protection Information

Respiratory Protection

Ventilation: Minimize dust levels

Protective Gloves: Wear chemical resistant gloves Eye Protection: Wear chemical splash goggles

Other Protection: Wear chemical resistant apron and footwear

#### 12. Environmental Precautions

Collect spillages and wash the soiled area with water and soap or detergent.

Dispose of waste material as domestic refuse.

PRE - 7070 - P will be completely degraded in microbial waste treatment systems.

# 13. Transportation

PRE - 7070 - P is not considered dangerous in any transportation.

# 14. Storage and Handling

Store under normal, cool dry warehouse condition away from open flames, sparks, heat or strong oxidants.

Seal container when not in use.

Material Safety Data Sheet

MSDS:9000

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# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

YOSHINOX BHT

# 2 COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Name

CAS No. Chemical formula

MW.

2,6-Di-t-butyl-4-cresol

128-37-0 C15H24O

220.39

EINECS No.

2048814

TSCA Status: On TSCA Inventory

# 3.HAZARD IDENTIFICATION

Fire & Explosion: Combustible solid. An explosion by static electricity may occur.

Hazard:

Acute oral toxicity is low. May cause irritation to eyes. May cause slight irritation to skin.

UN Classification: Not regulated

Substances to be reported according to the \*PRTR Law: None

\*PRTR: Pollutant Release and Transfer Registry

Substances to be reported according to Sub-Section 2 of Section 57 of the \*ISHL: 2,6-Di-t-butyl-4-crosol (100 wt.%)

\*ISHL: Industrial Safety and Health Law

# 4.FIRST AID MEASURES

Skin: Remove contaminated clothing and immediately wash off the site of contact with an abundance of water and neutral soap. Consult a physician if necessary.

Eyes: Immediately flush with clean running water for at least 15 minutes and consult an ophthalmologist. When washing the eyes, hold the eyelids wide open with fingers and wash well in such a way that water will reach every nook and corner of the eyeballs and cyclids.

Inhalation: Remove the patient to fresh air and keep him/her at rest. If necessary, call a physician. If the patient ceases breathing, practice artificial respiration on him/her. If the patient has difficulty in breathing, give oxygen inhalation to him/her.

Ingestion: Induce vomiting. Call a physician. If the patient is unconscious, never give fluids or induce vomiting.

# 5.FIRE-FIGHTING MEASURES

Fire-fighting instructions: Firstly put out fire with extinguish media from an upwind position.

Extinguishing Media:

Water spray, dry chemical, carbon dioxide, alcohol foam.

# 6,ACCIDENTAL RELEASE MEASURES

In case of spills, immediately scoop into suitable containers.

# YOSHINOX BHT, YOSHINOX BHT-P

MSDS: 9000

# 7 HANDLING & STORAGE

Handling: Avoid eye, skin and clothing contact.

Wear suitable protective clothing and equipment.

The material tends to accumulate static charges which may cause an electrical spark (ignition source).

Storage: Store at a dark place at room temperature away from the direct sunlight.

Eliminate source of ignition.

# 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold Limit Value

\*JAIH (1996 Edition): Class III Dust 8mg/m3 (total dust)

ACGIH (1996 Edition): TLV-TWA 10mg/m3

\*JAIH: The Japan Association of Industrial Health

Personal Protection: Provide general or local exhaust ventilation, or enclose the relevant equipment and

machines to prevent air contamination in a workshop.

Wear dust-proof mask, protective goggles, rubber gloves, protective clothing and protective

boots.

# 9 PHYSICAL & CHEMICAL PROPERTIES

Appearance and Odor. White crystals or powder. Odorless or a slightly characteristic odor

Specific Gravity: 1.048 (20°C)

Boiling Point: 265°C

Melting Point: .69 to 72°C

Bulk Density: 0.63

Vapor Pressure: 26.6hPa (147°C) Flash Point: 127°C(C.O.C.)

Ignition Point: 359℃

Heat of Combustion: 40614 J/g \*4 Explosion Limits: Upper, 40g/m3 (100 to 280-mesh product), Lower, 3000g (crystalline product)

Solubility:

Insoluble in water. Readily soluble in methanol, ethanol and isopropanol.

# 10 STABILITY & REACTIVITY

Stable under normal handling conditions.

# 11 TOXICOLOGICAL INFORMATION

Skin Corrosiveness: No relevant information available.

Irritation:

Skin (humans) 500mg/48H "Mild irritation" \*1

Skin (rabbits) 500mg/48H "Moderate irritation" \*1

Eye (rabbits) 100mg/24H "Severe irritation" \*1

Sensitization:

No relevant information available.

Acute toxicity:

Oral LDso in rats: > 890mg/kg \*1

Oral LD<sub>50</sub> in mice: > 1040mg/kg \*5

Subacute Toxicity:

In the experiment where BHT was mixed into foods at the concentrations of 0.05, 0.15, 0.45 and 1.35% each , then fed to rats of both sexes for 110 days, the 1.35% group showed a decrease in the body weight and the other groups showed no significant differences from the control group. In the 1.35% group, the body weight depression went in parallel with the decrease in the food consumption, and the water intake tended to

increase.

In the maximal deed group, rough hair coat and decreased spontaneous motor activity were observed, and death occurred in three males out of ten and seven females out

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the Ministry of Economy, Trade and Industry (published by the Chemicals Inspection & Testing Institute, Japan)

- \*4: The Company's own testing data
- \*5: Hazardous substances Data Bank (HSDB)
- \*6: NIH Publication No. 79-1706 (Reference is made to the Manual on the Japanese Standards of Food Additives, 6<sup>th</sup> Edition)
- \*7: The Annual Report 27-2, 28 (1976) by the Tokyo Metropolitan Research Laboratory of Public Health (Reference is made to the Manual on the Japanese Standards of Food additives, 6th Edition)
- \*8: The Annual Report 22, 231 (1972) by the Tokyo Metropolitan Research Laboratory of Public Health (Reference is made to the Manual on the Japanese Standards of Food additives, 6th Edition)

Registry Number with the Japanese Hygienic Olefin and Styrene Plastics Association: [B]NL-0024
Registry Number with the Japan Hygienic PVC Association (JHPA): M-0177

This information set forth herein has been gathered from standard reference materials and/or API CORPORATION's test data and is to the best knowledge and belief of API CORPORATION accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones which exist. API CORPORATION makes no warranties, express or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process, and assumes no responsibility therefor.

# Revision Summary:

- (1) January 26, 1998: Revised the value of heat of combustion from 9670cal/g to 40614J/g by using SI unit. Added new data relating to Subacute Toxicity, Chronic Toxicity and Mutagenicity. Revised the First Aid Measure by changing the words from "Immediately consult a physician" to "Consult a physician if necessary."
- (2) April 1, 2000: Changed the Company's address in accordance with its relocation as from the same date. Added the PRTR Law-related description in accordance with the enactment of the law on the same day.

# YOSHINOX BHT, YOSHINOX BHT-P

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of ten in worsened changes in the general conditions. Other changes were the tendencies of decreases in the hematocrit and hemoglobin concentrations, increases in the weights of the liver and kichey, an increase in the relative weight of the renal gland, a degeneration of the renal tubular epithelium, an expansion of the renal tubule, and fatty changes of liver

cells in the lobular zone. \*8

Chronic Toxicity:

As a result of the histopathological researches into the rats which had been reared for two years by feeding foods containing 0.005, 0.02 and 0.32% each of BHT, in all groups the rats showed no significant disorder in their tissues and organs, and tumors were not found.

Carcinogerucity:

Not observed. \*6

Mutagenicity:

BHT assumedly does not possess the risk of causing mutation or genetic toxicity in

humans as it lacks abilities of inducing point mutation and chromosomal breakage. \*2

Reproductive Effects: No relevant information available. No relevant information available. Teratogenicity:

# 12 ECOLOGICAL INFORMATION

Biodegradation: 4.5% by BOD\*3

Bioconcentration: Bioconcentration Factor (BCF) by Cyprinus carpio L.: 230 to 2500 times (Concentration:

50 μg/L) \*3

Bioconcentration Factor (BCF) by Cyprimis carpio L.: 230 to 2500 times (Concentration:

5 μg/L)

Fish Toxicity:

LC50=5.0 mg/L (48H) in scarlet killfish+3

# 13 DISPOSAL CONSIDERATION

Burn gradually in an incinerator with adequate care.

Follow all relevant regulations for disposal.

Do not dump this material into sewers, on the ground or into any body of water.

#### 14.TRANSPORT INFORMATION

Take adequate care so that the containers may not be damaged and confirm that damage or leakage has not occurred. If an accident occurs while being in transit, immediately contact the manufacturer.

# 15 REGULATORY INFORMATION

The Fire Services Act: Designated combustible substance (Combustible solid 3000kg)

(Existing chemical substances registry number on the Law Concerning the Examination and Regulation of Manufacture, Etc. of Chemical Substances by the Ministry of Economy, Trade and Industry, Japan)

# 16.OTHER INFORMATION

\*1: Registry of Toxic Effects of Chemical Substances (RTECS)

\*2: Bmhard E M et al (European BHT Manufacturers Assoc. EBMA, Brussels, BEL) Mutal Res 277(3) 187-200 (1992)

\*3: The Collection of Safety Inspection Data on the Existing Chemical Substances on the Law Concerning the Examination and Regulation of Manufacture, Etc. of Chemical Substances by

Formerly known as PALMCO COCOA SDN. BHD.



# MATERIAL SAFETY DATA SHEET

# I CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# 1.1 Product Details

Product Name : Aluminium Stearate (Fine Powder)

Trade Name : Palmstar Alst D1-200

Palmstar Alst D2-200 Palmstar Alst D3-200

Chemical Name : Metal salts(s) of Fatty Acids(s), Aluminium Stearate.

Chemical Formula : [CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>COO]<sub>3</sub>A1

[CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>COO]<sub>2</sub>A1 [CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>COO]A1

Molar Mass : 343.98, 609.98, 875.98

Chemical Family : Metallic Soap

Manufacturer's Code : Palmstar Alst D1-200

Palmstar Alst D2-200 Palmstar Alst D3-200

Use : Pharmaceutical and Food Industry use

# 1.2 Company Identification

Manufacturer's Name and Address : Peter Greven Asia Sdn Bhd

2411, Lorong Perusahaan Satu, Prai Industrial Complex, Penang

Importer's/Distributor's Name and Address : Not applicable Telephone Number : +60 4-3973495 Emergency Telephone Number : +60 4-3973495

# 1.3 Contact Point

Designation 1. Safety & Health Manager/ Officer

2. Quality / Technical Manager

Tel No +60 4-3973495

+60 4-3973495

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# MATERIAL SAFETY DATA SHEET

# II COMPOSITION/INFORMATION ON INGREDIENT

Chemical CAS No. Proportion Exposure Toxicity Data Name Limit [CH3(CH2)16 637-12-7 Contains Not Not applicable Aluminium salt(s) of applicable COO]3A1 fatty acid(s) C16-

C<sub>18</sub> Purity 99% min

# III PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White Fine Powder Odour : Faint fatty odour

Solubility : Negligible solubility in water but can solubilised

by acid

Boiling Point (°C) : Not applicable
Melting Point (°C) : 145-170
Vapour Pressure (mm of Hg at 25 °C) : Not applicable
Percentage Volatiles : Not applicable
Evaporation Rate : Not applicable

Vapour Density

Specific Gravity : > 1

Flash point : Not applicable OC
Autoignition temperature : Not applicable
lammable limit (%) : Not applicable
Other properties if applicable : None
Density ( 20oC) : > 1g/ml

# IV HAZARDS IDENTIFICATION

Most important hazards : None

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#### V FIRST AID MEASURES

Ingestion : If swallowed, see a physician and present this data sheet.

Eye contact : Flush eyes with profuse water. Remove any contact lenses

to ensure thorough flushing. If discomfort persist, consult

physician.

Skin contact : Clean contaminated skin by washing with water and soap.

Remove contaminated clothing.

Inhalation : Remove from exposure, Restore breathing, Keep at rest.

Notes to physician : The preparation contains aluminium compounds, which have negligible solubility in water but can be solubilized by

acid.

#### VI FIRE FIGHTING MEASURES

Extinguishing Media : Water, dry chemical, foam, sand.

(To avoid using carbon dioxide as media).

Fire fighting instruction : In case of fire use most appropriate agent to extinguish fire.

Special hazards : Not applicable.

# VII ACCIDENTAL RELEASE MEASURE

Leak/Spill : Wearing full protective equipment, cover spill with

dry sand and mix well. Clean mechanically, collect in a sealed container and label it. Avoid generating

dusty conditions.

# VIII HANDLING AND STORAGE

Handling : Avoid raising dust clouds as it may cause dust explosion.

Storage : Store in a dry place at ambient temperature.

Fire Prevention : Keep away from open flame.

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# MATERIAL SAFETY DATA SHEET

# IX EXPOSURE CONTROL AND PERSONAL PROTECTION

a. Exposure limit : Not applicable

b. Engineering measures : Use adequate ventilation.

TWA value: 10mg/m<sup>3</sup>.

c. Personal protection : Eye protection : Goggles.

Skin protection : Protect body against dust. Hand protection : Neoprene or nitrile rubber

gloves.

Repiratory protection: Half mask without cartridge of

respirator for fine dust.

# X STABILITY AND REACTIVITY

Conditions to avoid : Dust formation.

Incompatibles : Strong oxidizing agents eg. hydrogen peroxide, chromic

acid, etc.

Decomposition products : Non hazardous carbon dioxide and water are released at very

high temperature.

Hazardous polymerization : Will not occur.

# XI TOXICOLOGICAL INFORMATION

Toxicity Data : LD50 (oral, rat) : Not applicable.

Carcinogenicity : No

Reproductive Effect : No data available

Effects of overexposure : Ingestion : May be harmful, effects not

known.

Skin/ Eye contact : May cause irritation. Inhalation : May cause irritation.

Chronic effects : None known
Target organs : None
Medical conditions Generally : None known

Aggravated by exposure

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# MATERIAL SAFETY DATA SHEET

#### XII ECOLOGICAL INFORMATION

Mobility & : Not applicable
Bioaccumulation : Not applicable
Biodegradability : Not applicable
Aquatic Toxicity : Not applicable

#### XIII DISPOSAL INFORMATION

Product : Disposed off in accordance with local, state and federal

regulations.

Contaminated Packaging : Packaging material contaminated with residues has to be treated as

the product itself. Designate landfill subject to applicable local,

state and federal regulations.

#### XIV TRANSPORT INFORMATION

Land Transport ADR/ RID : Not regulated as a hazardous material.

Maritime Transport IMDG/ GGVSee : Not applicable.

Air Transport ICAO/ IATA-DGR : Not regulated as a hazardous material.

UN-Number : Not applicable.

# XV REGULATORY INFORMATION

It is non hazardous materials, thus the R-&-S sentences are not applicable.

#### XVI OTHER INFORMATION

Always work safely when handling Aluminium Stearate (Fine Powder) and wear protective goggles and face mask.

This Material and Safety Data Sheet does not constitute any warranty or guarantee as to the quality, properties, condition or otherwise of the product. It has been prepared from the best knowledge available to us and we shall not be liable for any insufficiency or inaccuracy in such information in any case whatsoever.

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