

# **SAFETY DATA SHEET**

Date Printed: January 5, 2024

Version: 2

Regulation: According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

# 1. Identification

#### 1.1 Product identifier

1.1.1 Product of name: CLBA-8923BK

1.1.2 Other means of identification: Not available

# 1.2 Recommended use of the chemical and restrictions on use

- **1.2.1 Recommended use**: It is used for coating of power cable.
- **1.2.2. Restrictions on use**: Do not use for purposes other than those recommended.

#### 1.3 Details of the supplier of the safety data sheet

#### 1.3.1 Manufacturer

Company name: Hanwha Solutions Co, Ltd.

Address: Yeosu plant, Hanwha Solutions Co, Ltd., 117, Yeosusandan 3-ro, Yeosu-si, Jeollanam-do, Korea

Prepared by: W&C Production team

Contact Telephone: +82-61-688-1582 Fax: +82-61-688-1585

# 1.3.2 Supplier & Distributor

Company name: Hanwha Solutions Co, Ltd.

Address: Hanwha Bldg., Cheonggyecheon-ro 86(Janggyo-dong), Jung-gu, Seoul, Korea

Prepared by: W&C Sales Team

Contact Telephone: +82-2-729-2689, Fax: +82-2-729-2563

E-mail Address: raehyun.yu@hanwha.com

# 1.4 Emergency phone number

Emergency phone: +82-2-729-2689

# 2. Hazard(s) identification

# 2.1 Classification of the substance or mixture

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Physical / Chemical Hazards: Not classified

Health Hazards: Not classified

Environmental Hazards: Not classified

# 2.2 Label elements, including precautionary statements

o Pictogram and symbol: Not applicable

o Signal word: Not applicable

o Hazard statements: Not applicable.

# o Precautionary statements:

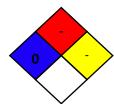
- **Prevention:** Not applicable

- Treatment statements: Not applicable- Storage statements: Not applicable

- Disposal: Not applicable



# 2.3 Other hazard information not included in hazard classification (NFPA)



o Health: 0

o Flammability: Not availableo Reactivity: Not available

. Composition/information on ingredients			
Component	Common name and synonyms	CAS No.	Conc. / %
Polyethylene	Ethylene polymers	9002-88-4	86-96
Dicumyl Peroxide	Bis(1-metyl-1- phenylethyl)peroxide	80-43-3	1-5
Carbon black	Acetylene black	1333-86-4	Trade secret
Trade secret	Trade secret	Trade secret	Trade secret
Zinc stearate	Octadecanoic acid zinc salt	557-05-1	<1

#### 4. First-aid measures

#### 4.1 Description of first aid measures

### Eye contact

- In case of contact with substance, immediately flush eyes with running water at least 20 minutes.

# Skin contact

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes.
- Remove and isolate contaminated clothing and shoes.
- Wash thoroughly clothes and shoes before reuse.
- Get immediate medical advice/attention.

# Inhalation

- Specific medical treatment is urgent.
- Move victim to fresh air.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.

# Ingestion

- Do not let him/her eat anything, if unconscious.
- Get immediate medical advice/attention.

# **4.2 Most important symptoms/effects, acute and delayed:** None known

# 4.3 Indication of immediate medical attention and notes for physician

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

# 5. Fire-fighting measures

# 5.1 Extinguishing media

- Suitable extinguishing media: Dry chemical, resistant alcohol foam, carbon dioxide, water, regular foam
- Unsuitable extinguishing media: High Pressure Water Jet
- Use normal powder or water spray to smother fire.

# 5.2 Specific hazards arising from the chemical

- May be ignited by heat, sparks or flames.
- Containers may explode when heated.
- Some of these materials may burn, but none ignite readily.



# 5.3 Special protective equipment and precautions for fire fighters

- Dike fire-control water for later disposal; do not scatter the material.
- Move containers from fire area if you can do it without risk.

# 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Eliminate all ignition sources.
- Stop leak if you can do it without risk.
- Ventilate the area.
- Do not touch or walk through spilled material.
- Prevent dust cloud.

### 6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

# 6.3 Methods and materials for containment and cleaning up

- Small Spill; Flush area with flooding quantities of water. And take up with sand or other non-combustible absorbent material and place into containers for later disposal.
- Large Spill; Dike far ahead of liquid spill for later disposal.
- With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

# 7. Handling and storage

### 7.1 Precautions for safe handling

- Please note that materials and conditions to avoid.
- Wash thoroughly after handling.
- Please work with reference to engineering controls and personal protective equipment.
- Be careful to high temperature.

# 7.2 Conditions for safe storage, including any incompatibilities

- Store in a closed container.
- Store in cool and dry place.

# 8. Exposure controls/personal protection

# 8.1 Occupational Exposure limits

< Polyethylene>

o ACGIH regulation: Not available

o Biological exposure index: Not available

o OSHA regulation: Not availableo NIOSH regulation: Not availableo EU regulation: Not available

o Other:

- Slovak Republic: TWA=5mg/m³ (total solid aerosol)

- Latvia: TWA= 5mg/m<sup>3</sup> (dust, listed under Polymers dust)

- China: TWA= 5mg/m³ (total dust), STEL= 10mg/m³ (total dust)

< Carbon black>

o ACGIH regulation: TWA = 3 mg/m³ (inhalable fraction)

o Biological exposure index: Not available o OSHA regulation: TWA = 3.5 mg/m<sup>3</sup>

o NIOSH regulation: TWA=3.5 mg/m³; 0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic

hydrocarbons, as PAH) **o EU regulation**:

Australia: TWA=3mg/m<sup>3</sup> Belgium: TWA= 3.5mg/m<sup>3</sup>



Finland: TWA= 3.5mg/m<sup>3</sup>, STEL=7mg/m<sup>3</sup>

o Other:

Malaysia: TWA=3.5mg/m<sup>3</sup> Bahrain: TWA=3.5mg/m<sup>3</sup>

China: TWA= 4mg/m<sup>3</sup> (total dust), STEL= 8mg/m<sup>3</sup> (total dust)

< Trade secret>

o ACGIH regulation: Not available

o Biological exposure index: Not available

o OSHA regulation: Not available o NIOSH regulation: Not available o EU regulation: Not available

o Other:

- Australia: TWA=10mg/m³ (containing no asbestos and <1% crystalline silica, inhalable dust)

- Latvia: TWA= 10mg/m³ [VME]
 - New Zealand: TWA= 10mg/m³

< Zinc stearate>

o ACGIH regulation: Not availableo Biological exposure index: Not available

o OSHA regulation: TWA=10 mg/m³ (total dust); 5 mg/m³ (respirable fraction) o NIOSH regulation: TWA=10 mg/m³ (total dust); 5 mg/m³ (respirable dust)

o EU regulation:

- Finland: TWA= 10mg/m<sup>3</sup>

- France: TWA= 10mg/m<sup>3</sup>[VME]

- United kingdom: TWA=10 mg/m³ (inhalable dust); 4 mg/m³ (respirable dust) STEL=20 mg/m³ (inhalable dust); 12 mg/m³ (calculated, respirable dust)

#### o Other:

- Vietnam: TWA=10mg/m³ (inhalable dust), 5mg/m³(respirable dust); STEL=20mg/m³ (inhalable dust)
- South Africa: TWA=10mg/m³ (total inhalable dust), 5mg/m³(respirable dust);

STEL=20mg/m³ (total inhalable dust, respirable dust)

- Kenya: TWA=10mg/m³ (total inhalable dust), 5mg/m³ (respirable dust);
 STEL= 20mg/m³ (total, inhalable dust)

# 8.2 Exposure controls

# Appropriate engineering controls

 Provide local exhaust ventilation system or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value

# Individual protection measures, such as personal protective equipment Respiratory protection

- Wear NIOSH approved full or half face piece (with goggles) respiratory protective equipment when necessary.

# Eye protection

- Wear breathable safety goggles to protect from particulate material causing eye irritation or other disorder.
- An eye wash unit and safety shower station should be available nearby work place.

#### Hand protection

- Wear appropriate protective gloves by considering physical and chemical properties of chemicals.

# **Body protection**

- Wear appropriate protective clothing by considering physical and chemical properties of chemicals.

# 9. Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

# **Appearance**

Description:Solid, PelletColor:Black



Odor: Odorless Odor threshold: Not available pH: Not available Melting point/freezing point: 100°C~130°C Initial boiling point and boiling range: Not available Flash point: Not available **Evaporation rate:** Not applicable Flammability (solid, gas): Not available Upper/lower flammability or explosive limits : Not available Vapor pressure: Not applicable Vapor density: Not applicable **Relative density** 0.920-0.935 Solubility: Not available Partition coefficient: n-octanol/water: Not available Auto-ignition temperature : Not available **Decomposition temperature** Not available Not available Viscosity:

# 10. Stability and reactivity

# 10.1 Reactivity/Chemical stability/Possibility of hazardous reactions:

- Stable under normal conditions.
- No dangerous reaction under conditions of normal use.
- Fire may produce irritating and/or toxic gases.
- If inhaled, may be harmful.

### 10.2 Conditions to avoid:

- Heat, sparks or flames

# 10.3 Incompatible materials:

- Strong oxidizing agent

# 10.4 Hazardous decomposition products:

- Halogenated compounds, carbon oxides, hydrogen chloride, carbon monoxide, carbon dioxide

11. Toxicological information			
Information on toxicological effects			
(a) Acute toxicity			
	Not classified(ATEmix=76,335 mg/kg)		
Oral	Polyethylene: Rat, $LD_{50} > 2,000$ mg/kg bw Dicumyl Peroxide: Rat, $LD_{50} > 2,000$ mg/kg bw (OECD TG 401, GLP) Carbon black: Rat, $LD_{50} > 8,000$ mg/kg Trade secret: Rat, $LD_{50} > 2,000$ mg/kg bw (OECD TG 420, GLP) Zinc Stearate: Rat(female), $LD_{50} = 5,000$ mg/kg bw, no death(OECD TG 423, GLP)		
Dermal	Not classified(ATE <sub>mix</sub> >2,000 mg/kg bw)		

<sup>&</sup>quot;NOTE: The physical data presented above are typical values and should not be construed as a specification"



	Dicumyl Peroxide: Rat, LD <sub>50</sub> >2,000 mg/kg bw (OECD TG 402, GLP)  Trade secret: Rat, LD <sub>50</sub> > 2,000 mg/kg bw (OECD TG 402, GLP)
	Zinc Stearate: Rabbit, LD <sub>50</sub> >2,000mg/kg bw
In halatian	Not classified(ATE <sub>mix</sub> =4,000 mg/L)
Inhalation	Trade secret: Rat, $LD_{50} > 3mg/L$ air 4h (OECD TG 403, GLP) Zinc Stearate: Rat, $LC_{50}(4h) > 50$ mg/L
	Not classified
(b) Skin Corrosion/ Irritation	- Polyethylene: In test on skin irritation with rabbits, mild skin irritations was observed.(irritating index: 0.2) - Dicumyl Peroxide: In test on skin irritation with rabbits, very slight erythema was observed (OECD TG 404, GLP) - Carbon Black: In test on skin irritation with rabbits, skin irritation was not observed. (OECD TG 404) - Trade secret: In test on skin irritation with rabbits, skin irritation was not observed. (OECD TG 404, GLP) - Zinc Stearate: In test on skin irritation with rabbits, the substance zinc distearate was found to be not irritating
(c) Serious Eye Damage/ Irritation	- Polyethylene: In test on eye irritation with rabbits, moderate eye skin irritations was observed. All treated eyes appeared normal at the 72 hour and 7 day observations. (11.7) - Dicumyl Peroxide: In test on eye irritation with rabbits, mild eye irritations was observed. The effects observed after 24 and 48 h (all grade 1 for cornea opacity and conjunctivae redness) were fully reversible after 72h. (cornea opacity=1, conjunctivae redness=1) (OECD TG 405, GLP) - Carbon black: In test on eye irritation with rabbits, eye irritations were not observed. (OECD TG 405) - Trade secret: In test on eye irritation with rabbits, eye irritations were not observed. (OECD TG 405, GLP) - Zinc Stearate: In test on eye irritation with rabbits, eye irritations were not observed.
(d) Respiratory sensitization	Not classified  - Carbon black: In test on respiratory sensitization with mouse, respiratory sensitization was not observed
(e) Skin Sensitization	Not classified
	<ul> <li>Polyethylene:         <ul> <li>In skin sensitization test with guinea pigs, skin sensitizations were not observed.</li> <li>Dicumyl Peroxide:</li></ul></li></ul>



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	In skin sensitization test with guinea pigs, skin sensitizations were not observed.  (OECD TG 406, GLP)  - Trade secret: In skin sensitization test with mouse, skin sensitizations were not observed.
	(OECD TG 429, GLP) - Zinc Stearate: The Substance Zinc Stearate was found to be not sensitizing when two eyeshadow formulation containing 10 % zinc stearate was applied twice a day for 28 days to 52 female panelists.
	Not classified
(f) Carcinogenicity	- Polyethylene:
	Not classified
(g) Mutagenicity	- Polyethylene:
	· In vitro: Bacterial Reverse Mutation Assay with/ without metabolic activation: Negative (OECD TG 471, GLP)
	Not classified
(h) Reproductive toxicity	- Dicumyl Peroxide: In a developmental toxicity study according to OECD 414, dicumyl peroxide was administered to 24 pregnant female Hsd. Brl. Han: WISTAR rats per dose by oral gavage at dose levels of 0, 50, 150 and 450 mg/kg bw/day from day 5 through 19 of gestation. The highest administered dose elicited pronounced maternal toxicity, including death, piloerection, reduced activity, coldness, paleness, vaginal bleeding and hypotonicity, enlarged adrenals and spleen and blood in the uterus, markedly reduced food consumption, lower body weight, markedly reduced body weight gain and weight loss as well as markedly reduced corrected body weight and body weight gain.  Effects of the highest dose on embryos included increased post implantation loss (and



lower number of viable foetuses), a decreased foetal weight, an increased percentage of foetuses with body weight retardation, malrotated fore- and hindlimbs as well as skeletal malformations of the pectoral girdle and extremities, increase of skeletal variations and placentas with dark brownish discoloration or fibrinoid degeneration possibly due to the marked maternal toxicity. (NOAELmaternal toxicity=150mg/kg bw/day, NOAELdevelopmental toxicity=150mg/kg bw/day, LOAELmaternal toxicity=450mg/kg bw/day, LOAELdevelopmental toxicity=450mg/kg bw/day, NOELmaternal toxicity=50mg/kg bw/day)(OECD TG 414, GLP)  - Trade secret:  Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test, there were no significant adverse effect. (OECD TG 422, GLP)(NOEL=1,000 mg/kg bw/day)  - Zinc Stearate:  In one-generation study with rabbit, under the conditions of the test, administration of up to 60 mg/kg bw of unspecified zinc sulphate had no adverse effects on adult rabbits and their foetuses. (NOAEL=60 mg/kg bw/day)(read-across CAS No. 7733-02-0)
Not classified
- Trade secret: In acute oral toxicity test with mouse, there were no significant adverse effect. NOAEL=1 300 mg/kg bw) - Zinc Stearate: Zinc stearate was acutely irritating when injected into the lungs of rats and the peritoneum of guinea pigs. Examination of the lungs revealed severe edema, congestion, and small hemorrhages. Animals that survived demonstrated no abnormality of the lungs after 14 or 259 days.
Not classified
- Polyethylene:



	pathological and histopathological changes were observed in liver, spleen and intestine. However, the biological significance of these findings are not related to test chemical. (NOAEL=1,000 mg/kg bw/day (nominal))(OECD TG 407, GLP)
(k) Aspiration Hazard	Not available

12.1 Toxicity	
	Not classified (ATE <sub>mix</sub> =304 mg/L)
Acute toxicity	- Dicumyl Peroxide:     Invertebrate: 48 hr EC <sub>50</sub> (Daphnia magna) > 1.74 mg/L (OECD TG 202, GLP)     Algae: 72 hr ErC <sub>50</sub> (Selenastrum capricornutum) > 1 000 mg/L (OECD TG 201, GLP)     - Carbon black     · Fish: 96hr LC <sub>0</sub> (Danio rerio) = 1,000mg/L (OECD TG 203, GLP)         96hr LC <sub>0</sub> (Danio rerio) = 10,000mg/L (OECD TG 203, GLP)         · Invertebrate: 24hr EC <sub>50</sub> (Daphnia magna) > 5,600mg/L (OECD TG 202, GLP)
	(read-across CAS No. 7440-66-6)  Not classified
Chronic toxicity	- Dicumyl Peroxide:  · Invertebrate: 21d NOEC <sub>reproduction</sub> (Daphnia magna) = 0.177 mg/L  (OECD TG 211, GLP)  · Algae: 72 hr NOEC (Selenastrum capricornutum) = 3.2 mg/L  (OECD TG 201, GLP)  - Zinc Stearate:  · Fish: 30d NOEC(Cottus bairdi)=0.172mg/L(read-across CAS No. 7440-66-6)  · Invertebrate: 21d NOEC(Daphnia magna)=0.31mg/L  (read-across CAS No. 7646-85-7)  · Algae: 10d NOEC(Fucus vesiculosus)=0.1mg/L(growth rate)  (read-across CAS No. 7646-85-7)
12.2 Persistence and degradability	- Dicumyl Peroxide:  Persistence: High persistency (log Kow is more than 4 estimated.) (Log Kow = 5.6, 25 °C) (OECD TG 117)  Degradability: The half life of dicumyl peroxide is 23.8 d (pH 4), 29.2 d (pH 7), 29.9 d(pH 9) at 25 °C. (OECD TG 111, GLP)  - Trade secret:  Persistence: Low persistency (log Kow is less than 4 estimated) (Log Kow=-2.21)(estimated)  - Zinc Stearate:



	Persistence: Low persistency (log Kow is less than 4 estimated) (Log Kow=0.2695)(37°C, pH=5.53)
12.3 Bioaccumulative potential	- Dicumyl Peroxide: Bioaccumulation: Bioaccumulation is expected to be high according to the BCF ≥ 500(BCF = 1977) (Estimated) Biodegradation: As not well-biodegraded, it is expected to have high accumulation potential in living organisms (18% biodegradation was observed after 28 day ) (OECD TG 301 D, GLP) - Trade secret: Bioaccumulation: Bioaccumulation is expected to be low according to the BCF < 500 (BCF = 3.162) (Estimated) - Zinc Stearate: Bioaccumulation: Bioaccumulation is expected to be low according to the BCF < 500 (BCF = 3.162) (Estimated)
12.4 Mobility in soil	- Dicumyl Peroxide: High potency of mobility to soil. (Koc = 5.93x10 <sup>4</sup> ) (Estimated) - Trade secret: Low potency of mobility to soil. (Koc = 0.3306) (Estimated)
12.5 Hazardous to the ozone layer	Not classified
12.6 Other adverse effects	Not available

# 13. Disposal considerations

# Disposal method

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

# Disposal precaution

Consider the required attentions in accordance with waste treatment management regulation.

# 14. Transport information

14.1 UN No.: Not applicable

14.2 UN Proper shipping name: Not applicable

14.3 Transport Hazard classes:

ADR: Not applicable IMDG: Not applicable ICAO/IATA: Not applicable RID: Not applicable

**14.4 Packing group**: Not applicable

14.5 Environmental hazards: Not applicable

14.6 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not established

14.7 Special precautions for user in case of fire: Not applicable in case of leakage: Not applicable

# 15. Regulatory information

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

< Polyethylene >

**USA Regulatory Information** 

TSCA (Toxic Substances Control Act): Section8 (b) inventory(Present) [XU]



Proposition 65: Not regulated OSHA Regulation: Not regulated CERCLA Regulation: Not regulated SARA 302 Regulation: Not regulated SARA 304 Regulation: Not regulated SARA 313 Regulation: Not regulated

### **Foreign Regulatory Information**

Substance of Rotterdam Protocol: Not regulated Substance of Stockholm Protocol: Not regulated Substance of Montreal Protocol: Not regulated

# **Foreign Inventory Status**

- Korea management information: Existing Chemical Substance (KE-28877)
- Japan management information: Existing and New Chemical Substances (ENCS): Present ((6)-1))
- China management information: Inventory of Existing Chemical Substances (IECSC): Present (05721)
- Australia management information: Australia Inventory of Chemical Substances (AICS): Present
- Canada management information: Domestic Substances List (DSL): Present
- New Zealand management information: New Zealand Inventory of Chemicals (NZIoC): May be used as a single component chemical under an appropriate group standard.
- Philippines management information: Philippines Inventory of Chemicals and Chemical Substances (PICCS): Present

### < Dicumyl peroxide >

# **USA Regulatory Information**

TSCA (Toxic Substances Control Act): Section8 (b) inventory(Present)

Proposition 65: Not regulated OSHA Regulation: Not regulated CERCLA Regulation: Not regulated SARA 302 Regulation: Not regulated SARA 304 Regulation: Not regulated SARA 313 Regulation: Not regulated

# **Foreign Regulatory Information**

Substance of Rotterdam Protocol: Not regulated Substance of Stockholm Protocol: Not regulated Substance of Montreal Protocol: Not regulated

# **Foreign Inventory Status**

- Korea management information: Existing Chemical Substance (KE-03299)
- European Inventory of Existing Commercial chemical Substances(EINECS): Present(201-279-3)
- Japan management information: Existing and New Chemical Substances (ENCS): Present ((3)-1086)
- China management information: Inventory of Existing Chemical Substances (IECSC): Present (14132)
- Australia management information: Australia Inventory of Chemical Substances (AICS): Present
- Canada management information: Domestic Substances List (DSL): Present
- New Zealand management information: New Zealand Inventory of Chemicals (NZIoC): HSNO Approval: HSR001374
- Philippines management information: Philippines Inventory of Chemicals and Chemical Substances (PICCS): Present

### < Carbon black >

# **USA Regulatory Information**

TSCA (Toxic Substances Control Act): Section8 (b) inventory (Present)

Proposition 65: Regulated
OSHA Regulation: Regulated
CERCLA Regulation: Not regulated



SARA 302 Regulation: Not regulated SARA 304 Regulation: Not regulated SARA 313 Regulation: Not regulated

SARA 311/312 Regulation: Regulated (3.5 mg/m<sup>3</sup>)

# **Foreign Regulatory Information**

Substance of Rotterdam Protocol: Not regulated Substance of Stockholm Protocol: Not regulated Substance of Montreal Protocol: Not regulated

# **Foreign Inventory Status**

- Korea management information: Phase-in substance subject to registration (KE-04682)
- European management information: European Inventory of Existing Commercial Chemical Substances (EINECS): Present (215-609-9)
- Japan management information: Existing and New Chemical Substances (ENCS): Present((5)-5222, (5)-3328)
- China management information: Inventory of Existing Chemical Substances (IECSC): Present (34022)
- Canada management information: Domestic Substances List (DSL): Present
- Australia management information: Australia Inventory of Chemical Substances (AICS): Present
- New Zealand management information: New Zealand Inventory of Chemicals (NZIoC): HSNO Approval: HSR002801
- Philippines management information: Philippines Inventory of Chemicals and Chemical Substances (PICCS): Present

#### < Trade secret >

# **USA Regulatory Information**

TSCA (Toxic Substances Control Act): Section8 (b) inventory: Present

Proposition 65: Not regulated OSHA Regulation: Not regulated CERCLA Regulation: Not regulated SARA 302 Regulation: Not regulated SARA 304 Regulation: Not regulated SARA 313 Regulation: Not regulated

# Foreign Regulatory Information

Substance of Rotterdam] Protocol: Not regulated Substance of Stockholm Protocol: Not regulated Substance of Montreal Protocol: Not regulated

# **Foreign Inventory Status**

- Korea management information: Existing Chemical Substance
- European Inventory of Existing Commercial chemical Substances(EINECS): Present
- Japan management information: Existing and New Chemical Substances (ENCS): Present
- China management information: Inventory of Existing Chemical Substances (IECSC): Present
- Australia management information: Inventory of Chemical Substances (AICS): Present
- Canada management information: Domestic Substances List (DSL): Present
- New Zealand management information: Inventory of Chemicals (NZIoC): Present
- Philippines management information: Inventory of Chemicals and Chemical Substances (PICCS): Present

### < Zinc stearate >

# **USA Regulatory Information**

TSCA (Toxic Substances Control Act): Section8 (b) inventory: Present

Proposition 65: Not regulated OSHA Regulation: Not regulated CERCLA Regulation: Not regulated SARA 302 Regulation: Not regulated SARA 304 Regulation: Not regulated



SARA 313 Regulation: Not regulated

# **Foreign Regulatory Information**

Substance of Rotterdam] Protocol: Not regulated Substance of Stockholm Protocol: Not regulated Substance of Montreal Protocol: Not regulated

# **Foreign Inventory Status**

- Korea management information: Existing Chemical Substance(KE-26418)
- European Inventory of Existing Commercial chemical Substances(EINECS): Present(209-151-9)
- Japan management information: Existing and New Chemical Substances (ENCS): Present ((2)-615)
- China management information: Inventory of Existing Chemical Substances (IECSC): Present(30048)
- Australia management information: Inventory of Chemical Substances (AICS): Present
- Canada management information: Domestic Substances List (DSL): Present
- New Zealand management information: Inventory of Chemicals (NZIoC): HSNO Approval: HSR003105
- Philippines management information: Inventory of Chemicals and Chemical Substances (PICCS): Present

# 16. Other information, including date of preparation or last revision

### 16.1 Indication of changes:

Preparation date: March 10, 2016

Version: 2

Revision date: January 5, 2024

# 16.2 Key literature reference and sources for data:

- o National chemicals information systems; http://ncis.nier.go.kr
- O Pubchem; http://pubchem.ncbi.nlm.nih.gov/
- o IARC Monographs on the Evaluation of Carcinogenic Risks to Humans; http://monographs.iarc.fr
- o ECHA; http://echa.europa.eu/web/guest
- O HSDB; http://toxnet.nlm.nih.gov/
- o OECD SIDS; http://webnet.oecd.org/
- NIOSH(The National Institute for Occupational Safety and Health)
- o ACGIH(American Conference of Governmental Industrial Hygienists)
- o TOMES-LOLI®; http://www.rightanswerknowledge.com/loginRA.asp
- ${\tt o\ National\ Emergency\ Management\ Agency-Korea\ dangerous\ material\ inventory\ management\ system;}$

http://hazmat.mpss.kfi.or.kr/index.do

o EPISUITE Program ver.4.1

#### 16.3 Abbreviations

ACGIH: American Conference of Governmental Industrial hygienists NIOSH: The National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration IARC: International Agency for Research on Cancer

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods

ICAO/IATA: International Civil Aviation Organization/ International Air Transport Association

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

#### 16.4 Other

- Product should be handled, stored, and used in accordance with the generally accepted industrial hygiene practices and in conformity with all the applicable legal regulations.
- The information provided herein is based on the knowledge possessed at this present time from the view point of safety requirements.
- It should, therefore, not be construed as guaranteeing specific properties.