

LOWILITE® 77 MICROPELLETS

Version 1.10 Revision Date:
01/12/2022

Date of last issue: 02/03/2016
Date of first issue: 04/15/2013

SECTION 1. IDENTIFICATION**Product identifier**

Product name : LOWILITE® 77 MICROPELLETS

Other means of identification : Decanedioic acid, bis-(2,2,6,6-tetramethyl-4-piperidinyl) ester

Recommended use of the chemical and restrictions on use

Recommended use : UV absorber

Restrictions on use : Reserved for industrial and professional use.

Manufacturer or supplier's details**Supplier**

Company : SI Group USA (USAA), LLC

Address : 4 Mountainview Terrace
Suite 200
Danbury, CT
United States of America (USA)
06810

E-mail address : msdsrequest@siigroup.com

Emergency telephone

Emergency Phone Number : CHEMTREC/US : +1 703-741-5970
NCEC/CHINA : 400 120 6011
NCEC/INDIA : 000 800 100 7479
NCEC/ROW : +44 1235 239670

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with 29 CFR 1910.1200**

Combustible dust

Serious eye damage : Category 1

Reproductive toxicity : Category 2

GHS label elements

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Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: May form combustible dust concentrations in air.
H318 Causes serious eye damage.
H361f Suspected of damaging fertility.

Precautionary Statements

Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Substance name

: bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Decanedioic acid, bis-(2,2,6,6-tetramethyl-4-piperidiny) ester	52829-07-9	>= 90 - <= 100

The exact percentage concentrations of components are being withheld as a trade secret in accordance with paragraph (i) of §1910.1200

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SECTION 4. FIRST AID MEASURES

General advice	: Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.
If inhaled	: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.
Most important symptoms and effects, both acute and delayed	: Product dust may be irritating to eyes, skin and respiratory system. Causes serious eye damage. Suspected of damaging fertility.
Notes to physician	: The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire fighting	: Do not allow run-off from fire fighting to enter drains or water courses. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Hazardous combustion products	: No hazardous combustion products are known
Further information	: Collect contaminated fire extinguishing water separately. This

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must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.
for fire-fighters

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Non-sparking tools should be used.
Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Minimize dust generation and accumulation.
Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.
Keep away from heat and sources of ignition.
- For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.
Store at temperatures not exceeding 35 °C

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	Keep away from fire, sparks and heated surfaces. In case of occurrence of dust, risk of dust explosion.
Materials to avoid	: Never allow product to get in contact with water during storage.
Further information on storage stability	: Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

Engineering measures : It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.
Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas.

Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m³ - total dust, 5 mg/m³ - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m³ - respirable particles, 10 mg/m³ - inhalable particles.

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Dust safety masks are recommended when the dust concentration is more than 10 mg/m³.

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Filter type	: Particulates type
Hand protection	
Remarks	: Polyvinyl alcohol or nitrile- butyl-rubber gloves Before removing gloves clean them with soap and water.
Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection	: Dust impervious protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

Environmental exposure controls

Water : Do not let product enter drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder, or, pellets
Color	: white to light yellow
Odor	: odorless
Odor Threshold	: No data available
pH	: No data available
Melting point/range	: 80 - 85 °C / 80 - 85 °C
Boiling point/boiling range	: No data available
Flash point	: > 150 °C / 150 °C
Evaporation rate	: <Ether
Flammability (solid, gas)	: May form combustible dust concentrations in air.
Upper explosion limit	: No data available
Lower explosion limit / Lower flammability limit	: 30,000 mg/m3

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Vapor pressure	: 1 x 10E-10 mmHg at 20 °C
Relative vapor density	: Heavier than air
Relative density	: 1.05 (35 °C / 35 °C)
Bulk density	: No data available
Solubility(ies)	
Water solubility	: < 100 mg/l (20 °C / 20 °C)
Solubility in other solvents	: 200 g/l (20 °C / 20 °C) Solvent: Acetone
	: 790 g/l (20 °C / 20 °C) Solvent: Methanol
	: 5 g/l (20 °C / 20 °C) Solvent: Diethyl ether
Partition coefficient: n-octanol/water	: log Pow: 0.35
Autoignition temperature	: 320 °C / 320 °C Auto-flammability
Decomposition temperature	: >350 °C / 350 °C
Viscosity	
Viscosity, dynamic	: 23.5 mPa.s (150 °C / 150 °C)
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Surface tension	: No data available
Dust deflagration index (Kst)	: 275 m.b_/s
Minimum ignition energy	: < 10 mJ

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: No decomposition if stored and applied as directed.

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Possibility of hazardous reactions	: Stable under recommended storage conditions. No decomposition if used as directed.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents Strong acids Strong bases
Hazardous decomposition products	: Nitrogen oxides (NO _x) Carbon monoxide Carbon dioxide (CO ₂)

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eye contact

Acute toxicity

Not classified based on available information.

Not classified based on available information.

Product:

Acute oral toxicity : LD50 (Rat): 3,700 mg/kg

Acute inhalation toxicity : Acute toxicity estimate (Rat): 806 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 3,170 mg/kg

Components:**Decanedioic acid, bis-(2,2,6,6-tetramethyl-4-piperidinyI) ester:**

Acute oral toxicity : LD50 (Rat): 3,700 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 3,100 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Not classified based on available information.

Product:

Remarks : May cause skin irritation in susceptible persons.

Components:

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Decanedioic acid, bis-(2,2,6,6-tetramethyl-4-piperidinyI) ester:

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.
Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:**Decanedioic acid, bis-(2,2,6,6-tetramethyl-4-piperidinyI) ester:**

Species : Rabbit
Result : Risk of serious damage to eyes.

Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks : No data available

Components:**Decanedioic acid, bis-(2,2,6,6-tetramethyl-4-piperidinyI) ester:**

Test Type : Maximization Test
Species : Guinea pig
Assessment : Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.
Not classified based on available information.

Product:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

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Components:

Decanedioic acid, bis-(2,2,6,6-tetramethyl-4-piperidinyI) ester:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Germ cell mutagenicity - : In vitro tests did not show mutagenic effects
Assessment

Carcinogenicity

Not classified based on available information.
Not classified based on available information.

Product:

Carcinogenicity - Assessment : Not classified due to lack of data.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.
Suspected of damaging fertility.

Components:

Decanedioic acid, bis-(2,2,6,6-tetramethyl-4-piperidinyI) ester:

Reproductive toxicity - : Some evidence of adverse effects on sexual function and
Assessment fertility, based on animal experiments.

STOT-single exposure

Not classified based on available information.
Not classified based on available information.

Product:

Assessment : Not classified due to lack of data.

STOT-repeated exposure

Not classified based on available information.
Not classified based on available information.

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Product:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Repeated dose toxicity**Product:**

LOAEL : 29 mg/kg
Exposure time : 13 weeks

Aspiration toxicity

Not classified based on available information.
Not classified based on available information.

Product:

No aspiration toxicity classification

Further information**Product:**

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : EC50 (Lepomis macrochirus (Bluegill)): 4.4 mg/l
Exposure time: 96 h

LC50 (Danio rerio (zebra fish)): 13 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 8.58 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.705 mg/l
End point: Growth rate
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia): 0.23 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (Bacteria): 100 mg/l
Exposure time: 3 h

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Components:**Decanedioic acid, bis-(2,2,6,6-tetramethyl-4-piperidinyI) ester:**

Toxicity to fish : EC50 (Lepomis macrochirus (Bluegill)): 4.4 mg/l
Exposure time: 96 h

LC50 (Danio rerio (zebra fish)): 13 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 8.58 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Scenedesmus species): 0.705 mg/l
plants Exposure time: 72 h

Toxicity to daphnia and other : NOEC (Daphnia sp. (Water flea)): 0.23 mg/l
aquatic invertebrates End point: Survival
(Chronic toxicity) Exposure time: 21 d
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (Bacteria): 100 mg/l
Exposure time: 3 h

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Persistence and degradability**Product:**

Biodegradability : Result: Not readily biodegradable.
Remarks: Not readily biodegradable.

Components:**Decanedioic acid, bis-(2,2,6,6-tetramethyl-4-piperidinyI) ester:**

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: No data available

Components:**Decanedioic acid, bis-(2,2,6,6-tetramethyl-4-piperidinyI) ester:**

Partition coefficient: n- : log Pow: 0.35

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octanol/water

Mobility in soil**Product:**

Mobility : Remarks: No data available

Stability in soil : Remarks: Adsorbs on soil.

Other adverse effects**Product:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.Dispose of as unused product.Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

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	(bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate)
Class	: 9
Packing group	: III
Labels	: Class 9 - Miscellaneous Dangerous Goods
Packing instruction (cargo aircraft)	: 956
Packing instruction (passenger aircraft)	: 956
IMDG-Code	
UN number	: UN 3077
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate)
Class	: 9
Packing group	: III
Labels	: 9
EmS Code	: F-A,S-F
Marine pollutant	: yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not regulated by DOT and TDG if shipped or transported in packaging less than 400KG by road and/or rail.

Domestic regulation

49 CFR

UN/ID/NA number	: UN 3077
Proper shipping name	: Environmentally hazardous substances, solid, n.o.s. (bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate)
Class	: 9
Packing group	: III
Labels	: Class 9 - Miscellaneous Dangerous Goods
ERG Code	: 171
Marine pollutant	: yes

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Combustible dust
Reproductive toxicity
Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations**Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

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AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: On or in compliance with the active portion of the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

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AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ERcX - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

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The information and recommendations contained in this safety data sheet are, to the best of SI Group's knowledge, belief and experience, accurate and reliable as of the date of its publication and describe the product only with regard to safety requirements. It is the user's responsibility to confirm that it is using the most current available version of this safety data sheet. The information and recommendations herein are offered for the user's consideration and examination. Identified uses in this safety data sheet do neither represent an agreement on the quality of the Product nor a designated use. For the avoidance of doubt, nothing herein shall be construed as relieving the user of its responsibility to ensure that the product is suitable for the

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