

Version 6.1N

Page 1 / 8

Revision Date 01 04,2021

SECTION 1: Identification of the substance/mixture and of the company

Product Code: PowerStab™ 770
Product name: Bis(2,2,6,6,-tetramethyl-4-piperidyl)sebacate
Manufacturer: Tintoll Performance Materials Co.,.Ltd.
Post Address: A703,No.50 Jialingjiang East St,Nanjing,China
Email: SDS@TinToll.com
Emergency Telephone Number: +86-25-8468-0091
Use of Substance: For Industrial Use

SECTION 2: Hazardous identification**Emergency overview**

Signal word: WARNING !
Colour: white
Appearance: powder
State of matter: solid
Odour: odourless
Health: This product is corrosive to eyes and is a skin and respiratory irritant, and may cause skin sensitization. Avoid contact. The product is slightly toxic, and may cause a bitter metallic taste in the mouth.
Physical/Chemical hazards:
Refer to MSDS Section 7 for Dust Explosion information.

Potential health effects**Primary routes of entry:**

Ingestion, Skin, Inhalation, Eyes

Potential environmental effects:

This product is moderately toxic to aquatic organisms. Releases to the environment are to be avoided.

SECTION 3: Composition/information on ingredients

CAS Number	Content (Weight)	Chemical name	Hazardous
52829-07-9	50.0 - 100.0 %	Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester	Y

This material is classified as hazardous under OSHA regulations.

SECTION 4: First aid measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.

If on skin:

After contact with skin, wash immediately with plenty of water and soap.

Get medical attention if irritation occurs.

If in eyes:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed:

Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Seek medical attention immediately.

Notes to physician:

May aggravate pre-existing skin conditions, allergies, eczema or respiratory problems. Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media:

carbon dioxide, dry powder, foam, water fog

Hazardous combustion products:

Burning may produce toxic combustion products.

Hazards during fire-fighting:

Standard procedure for chemical fires.

The product can form an explosive dust/air mixture. For further information, see Section 7 Explosion Hazards.

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

SECTION 6: Accidental release measures

Version 6.1N

Page 3 / 8

Revision Date 01 04,2021

Cleanup:

Sweep up and shovel into suitable containers for disposal.

Avoid raising dust.

Wear suitable protective equipment.

Should not be released into the environment.

SECTION 7: Handling and storage

Precautions for safe handling

General advice:

As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale. Do not taste or swallow. Use only with adequate ventilation.

Protection against fire and explosion:

Combustible powder. - Avoid creating dusty conditions. - Grounding is required when emptying into a conductive container. - When flammable solvents are present, the container must be inerted or the system otherwise designed to prevent or contain an explosion. Seek expert advice. In addition, for products packaged in fused-lined (coated) fiber drums, fiber drums with conductive liners, steel drums, steel pails, and Type " C " FIBC (bulk bags), or other conductive the following instructions also apply: - Always ground this package before emptying. The user is responsible for designing the system to handle solid and ensuring proper training of employees in the system's use.

Conditions for safe storage, including any incompatibilities

General advice:

Keep container tightly closed in a dry, cool and well-ventilated place.

Protect from light.

SECTION 8: Exposure Controls/Personal Protection

Exposure Guidelines

Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidiny) ester (52829-07-9)	CIEL	8h TWA: 1 mg/m ³ (inhalable)
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Engineering Controls:

Work in well ventilated areas. Do not breathe dust.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified respirator as necessary.

Hand protection:

Version 6.1N

Page 4 / 8

Revision Date 01 04,2021

Wear chemical resistant gloves and protective clothing.

Eye protection:

Wear safety goggles (chemical goggles) if there is potential for airborne dust exposures.

General safety and hygiene measures:

There are no OSHA or ACGIH exposure guidelines available for component(s) in this product.

Eye wash station and safety shower should be available in immediate work area. Select additional protective equipment based upon potential for exposure.

SECTION 9: Physical and Chemical Properties

Form	powder
Colour	white
Odour	odourless
PH value	9.7 20 - 25 °C) (as suspension)
Flash Point:	>150°C (DIN 51584)
Melting point	81-85 °C
Boiling point	not applicable
Dust explosion class:	Heavy Dust (20 lt ball at 10'000 Joule) Explosion. (2)
Density	1.05 g/cm ³ (20 °C)
Partitioning coefficient noctanol/ water (log Pow):	0.35 (20 - 25 °C)
% volatiles:	0.5%
Vapour pressure:	13nPa (20°C)
Solubility in water:	< 1 mg/l (20°C)
Decomposition temperature:	> 350 °C (Temperature program (Lütolf))

SECTION 10: Stability And Reactivity**Stability:**

Stable.

Conditions to avoid:

Avoid electro-static discharge. Avoid sources of ignition.

Substances to avoid:

strong oxidizing agents, strong acids, strong bases

Hazardous reactions:

No hazardous reactions known.

Decomposition products:

No decomposition expected under normal storage conditions.

SECTION 11: Toxicological Information**Acute Oral toxicity:**

LD50 / oral / rat: > 2,000 mg/kg

Inhalation:

LC50 / by inhalation / rat: > 960 mg/m³

for a 4 Hr dust exposure, essentially all particles >10 microns. There were neither mortalities nor gross pathological alterations, but salivation, lacrimation and changes in activity were seen.

Dermal:

LD50 / dermal / rat: > 2,000 mg/kg

Irritation / corrosion**Skin:**

Species: Humans

Result: Primary skin irritant when applied neat

Eye:

Species: rabbit

Result: Corrosive due to corneal reactions not clearing over a 7-14 day observation period.

Sensitization:

Species: guinea pig

Result: Non-sensitizing.

Optimization Test: Primary skin irritant when applied neat, sensitization seen in 2 of 50 subjects.

Subchronic Toxicity:

4-week oral studies (rats): Rats were dosed with from 50 - 2,000 mg/kg/day for 4-weeks by gavage.

Doses of 600 mg/kg and greater caused deaths, salivation, tremors and sedation. Specialized investigations indicated an interaction with norepinephrine. The NOEL was found to be 50 mg/kg/day.

13-week study (Rats): Rats were treated with the test article in the diet, at concentration levels of 0, 400, 1,300 and 4,000 ppm for 13 weeks. The only changes seen were increases in body weight gain and food consumption. Based on this, the NOEL was found to be 400 ppm, equivalent to about 27 mg/kg/day.

90-day study (dogs): Beagle dogs were fed the test substance in the diet for 90 days at concentrations of 0, 800, 2,600 and 8,000 ppm. Due to palatability problems, the high dose group was adjusted to 5,000 ppm. The high-dose changes were attributed to poor food intake during the first six weeks. As a consequence, the NOEL was considered to be 2,600 ppm, equivalent to about 74 mg/kg/day.

Dust inhalation (rats): Four groups of rats were exposed 6 hours per day, 5 days per week for a period of three weeks to a target concentration of either 0.3, 15 or 75 mg/m³ air. Following the final exposure, 5 males and 5 females from each group were sacrificed, the remaining animals were

observed for 14 days and then sacrificed. In addition, blood pressures were monitored on 5 male and 5 female rats from each group on exposure days 1, 5, 10 and 15. There were no abnormalities or blood pressure changes noted, except for local rhinitis in the nasal mucosa.

Genetic toxicity:

Ames Test: negative

Non-mutagenic.

Carcinogenicity:

None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity:

not determined

Developmental toxicity/teratogenicity:

not determined

Neurotoxicity:

Not determined

SECTION 12: Ecological Effects**Fish:**

Acute:

Oncorhynchus mykiss/96 h/LC50: 13 mg/l (OECD Guide-line 203)

Aquatic invertebrates

Acute:

Daphnia magna/24 h/EC50: 17 mg/l (OECD 202)

Aquatic plants

Toxicity to aquatic plants:

Scenedesmus sp./72 h: 1.9 mg/l (Guideline 92/69/EEC, C.3)

Microorganisms

Toxicity to microorganisms:

activated sludge/3 h/IC50: > 100 mg/l (OECD 209)

Biodegradation:

Test method: OECD 301E

Degree of elimination: (28 Days)

Evaluation: Moderately/partially biodegradable.

Test method: Directive 84/449/EEC, C.5

Degree of elimination: (28 Days)

Evaluation: Not readily biodegradable.

SECTION 13: Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

Resource Conservation and Recovery Act (RCRA):

Not a hazardous waste under RCRA (40 CFR 261).

SECTION 14: Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

SECTION 15: Regulatory Information

US: Toxic Substances Control Act (TSCA): All component(s) comprising this product are either exempt or listed on the TSCA inventory

Canada: Domestic Substances List (DSL): All components either exempt or listed on the DSL

United States - Regulations

SARA Section 311/312 Hazard Communication Standard:

Acute Health: Y Fire: N

Chronic Health: N Reactivity: N

Sudden release of pressure: N

SARA Reportable Quantities:

No components listed.

SARA Section 313 Toxic Chemical List:

No components listed.

OSHA hazard category:

This material is classified as hazardous under OSHA regulations.

Toxic Substances Control Act (TSCA) Significant New Use Rule (SNUR):

This product is not subject to a Significant New Use Rule (SNUR).

Toxic Substances Control Act (TSCA) Section 5(e) Consent Orders:

Version 6.1N

Page 8 / 8

Revision Date 01/04/2021

This product is not subject to a Section 5(e) Consent Order.

Toxic Substances Control Act (TSCA) Section 5(f):

This product is not subject to a Section 5(f)/6(a) rule.

Toxic Substances Control Act (TSCA) Section 12(b) Export Notification:

No components listed.

Clean Air Act - Hazardous Air Pollutants (HAP):

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

Clean Air Act 111 - Volatile Organic Compounds (VOC):

This product does not contain any SOCM Intermediate or Final Volatile Organic Compounds (VOC), as defined by the U.S. Clean Air Act Section 111 (40 CFR 60.489).

Clean Air Act 602 - Ozone Depleting Substances (ODS):

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

Clean Water Act - Priority Pollutants (PP):

This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307(2)(1) Priority Pollutant List (40 CFR 401.15).

Pennsylvania Right to Know:

This product does not contain any components that are subject to the Pennsylvania Right-To-Know disclosure requirement.

California Proposition 65 - Chemicals Known to the State to Cause Cancer:

No components listed.

California Proposition 65 - Chemicals Known to the State to Cause Reproductive Toxicity:

No components listed.

International Regulations**Chemical Weapons Convention:**

This product does not contain any component(s) listed under the Chemical Weapons Convention Schedule of Chemicals.

SECTION 16: Other Information**Any other precaution**

The information herein is made based on references, information and data available at present. It may be revised when new information is available.

The descriptions herein are for normal handling. For special application, make safety provisions suitable to them prior to use.