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

Product Identifier

Product Name: PowerNox™ 2450
 Chemical Name: Triethyleneglycol-bis-3-(3-tert-butyl-4-hydroxy-5-methylphenyl) propionate

Relevant identified uses of the substance or mixture and uses advised against

Relevant applications identified For industrial use

Details of the supplier of the safety data sheet

Company Tintoll Performance Materials Co.,Ltd.
 A-703, No. 50 Jialingjiang East St, Nanjing, China
 Email: SDS@TinToll.com

Emergency Telephone Number: +86-25-8468-0091

SECTION 2: Hazardous identification

Classification of the substance or mixture

Acute toxicity, skin – Category 4
 Acute toxicity, oral – Category 5
 Eye irritation – Category 2B
 Skin irritation – Category 3

GHS Label elements, including precautionary statements



Pictogram(s):

Signal Word: Warning

Health

Hazards:	H303	May be harmful if swallowed.
	H312	Harmful in contact with skin
	H316	Causes mild skin irritation
	H320	Causes eye irritation
Environmental	H401	Toxic to aquatic life
Hazards:		
General	P101	If medical advice is needed, have product container or label at hand.
Precautions:		
	P102	Keep out of reach of children.

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Prevention Precautions:	P103	Read label before use.
	P264	Wash skin thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response Precautions:	P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
	P312	Call a POISON CENTER or doctor/physician if you feel unwell.
	P332 + P313	If skin irritation occurs: Get medical advice/attention.
	P337 + P313	If eye irritation persists: Get medical advice/attention.
	P362 + P364	Take off contaminated clothing and wash it before reuse.
Disposal Precautions:	P501	Dispose of contents/container according to local, state and federal laws.
	Hazards not otherwise classified (HNOC) or not covered by GHS - none	

SECTION 3: Composition/information on ingredients

The following ingredients are hazardous according to OSHA criteria.

CAS	Component	Concentration
127519-17-9	benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxy-, C7-8 branched and linear alkyl esters	30% - 40%
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	25% - 35%
125643-61-0	benzenepropanoic acid, 3,5-bis(1,1-dimethyl-ethyl)-4-hydroxy-, C7-C9 branched alkyl esters	15% - 25%
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	<15%

SECTION 4: First aid measures

Inhalation:	Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.
Eye Contact:	Flush eyes with plenty of water. If irritation persists, seek medical attention.

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Skin Contact: In case of skin contact, wash thoroughly with soap and water.

Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

After first aid, get appropriate in-plant, paramedic, or community medical support.

SECTION 5: Firefighting measures

Flammable Classification: Non-Flammable

Extinguishing Media: Water Fog, Dry Chemical, and Carbon Dioxide Foam

Unusual Fire or Explosion Hazards: None known.

Fire-Fighting Instructions: Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam.

Further information: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure demand or positive-pressure mode.s

SECTION 6: Accidental release measures

Spill /Leak procedures: Only properly protected personnel should remain in the spill area; dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely.

Environmental precautions: Do not allow material to enter drains.

SECTION 7: Handling and storage

Handling Precautions: Use good general housekeeping procedures. Wash hands after use.
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Storage Requirements: Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles.
Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use.
Indoor storage should meet OSHA standards and appropriate fire codes.

Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

SECTION 8: Exposure Controls/Personal Protection

Respiratory Protection:	Respiratory protection is not normally required when using this product with adequate ventilation. Should a respirator be needed, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with organic vapor cartridges.
Hand Protection:	Wear chemically resistant, liquid-tight gloves such as butyl rubber, neoprene or PVC.
Eye Protection:	Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.
Other Protective Clothing/ Equipment:	Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.
Comments:	Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

SECTION 9: Physical and Chemical Properties

Appearance :	yellow viscous liquid
Odor/Threshold:	characteristic odor
pH:	N.A. (non-aqueous)
Melting Point/Freezing Point:	N.A.
Low/High Boiling Point:	>464 °F
Flash Point:	>300 °F
Evaporation Rate:	Not available
Flammability:	f.p. at or above 200 °F
UEL/LEL:	Not available
Vapor Pressure:	< 10 mmHg @ 68 °F

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Vapor Density (Air=1):	>1
Specific Gravity (H2O=1, at 4 °C):	1.02
Water Solubility:	<10 mg/l
Partition coefficient:	6.6 (calculated)
Auto-ignition temperature:	>720 °F
Decomposition temperature:	Not available
Viscosity:	9,000 – 12,000 centipoise
% Volatile:	Nil

SECTION 10: Stability And Reactivity

Stability:	These products are stable at room temperature in closed containers under normal storage and handling conditions.
Polymerization:	Hazardous polymerization cannot occur.
Chemical Incompatibilities:	Strong bases, and acids.
Hazardous Decomposition Products:	Thermal oxidative decomposition can produce carbon oxides and traces of incompletely burned carbon compounds.

SECTION 11: Toxicological Information

Skin Corrosion/Irritation:	Causes mild skin irritation
Serious Eye Damage/Irritation:	Causes eye irritation
Respiratory/Skin Sensitization:	no data
Germ Cell Mutagenicity:	no data
Carcinogenicity:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC; or as a carcinogen or potential carcinogen by ACGIH, NTP, or OSHA.
Reproductive Toxicity:	no data
Specific Target Organ Toxicity – Single Exposure:	no data
Specific Target Organ Toxicity – Repeated Exposure:	no data
Aspiration Hazard:	no data
Acute Toxicity: calculated	LD50 oral – >2,000 mg/kg (rat)

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LD50 inhalation – no data
 LD50 dermal - >2,000 mg/kg (rat)
Chronic Exposure: no data
Potential Health Effects
 – **Miscellaneous:** no data

SECTION 12: Ecological Effects

Toxicity: calculated
 LC50 *Brachydanio rerio* - >20 mg/l (96 h)
 EC50 *Daphnia magna* - >30 mg/l (24 h)
 EC50 Algae - >2 mg/l (72 h)
Persistence and Degradability: no data
Bioaccumulative Potential: no data
Mobility in Soil: no data
Other Adverse Effects: no data

SECTION 13: Disposal considerations

Disposal: Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14: Transport Information

DOT Not Regulated	IATA Not Regulated	IMDG Not Regulated
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SECTION 15: Regulatory Information

TSCA Inventory Status (40 CFR710): All components of this formulation are listed in the TSCA Inventory. California Proposition 65: This product



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does not intentionally contain any chemicals which have been identified by the state of California to cause cancer, birth defects or other reproductive harm..

SECTION 16:Other Information

Further information

It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.