

MATERIAL SAFETY DATA SHEET

1	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1	Product identifiers	
	Product Name	2-(2H-Benzotriazol-2-yl)-4, 6-Di-Tert-Pentylphenol
	CAS No.	25973-55-1
1.2	Relevant identified uses of the substance or mixture and uses advised against.	
	Identified uses	
	<ol style="list-style-type: none"> 2-(2H-Benzotriazol-2-yl)-4, 6-di-tert-pentylphenol is used in combination with phenolic & phosphite antioxidants, and HALS to optimize performance in outdoor use. 2-(2H-Benzotriazol-2-yl)-4, 6-di-tert-pentylphenol it is a highly effective light stabilizer for a variety of plastics and other organic substrates. 	
1.3	Details of the supplier of the safety data sheet.	
	COMPANY	DONGGUAN BAOXU CHEMICAL TECHNOLOGY LTD
		ROOM 1118 CAIJIN BUSINESS BUILDING,
		NAN CHENG DISTRICT, DONGGUAN, GUANGDONG, CHINA
		Telephone : +8676922821082.
		Email - info@additivesforpolymer.com
2	HAZARDS IDENTIFICATION.	
2.1	Classification of the substance or mixture.	
	Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP].	
	Skin irritation (Category 2)	
	Eye irritation (Category 2)	
	Specific target organ toxicity - single exposure (Category 3)	
	Chronic aquatic toxicity (Category 4).	
	Classification according to EU Directives 67/548/EEC or 1999/45/EC.	
	Irritating to eyes, respiratory system and skin.	
2.2	Label elements	
	Labelling according Regulation (EC) No 1272/2008 [CLP]	
	Pictogram	
	Signal word	Warning.
	Hazard statement(s)	
	H315	Causes skin irritation.
	H319	H319 Causes serious eye irritation.
	H335	May cause respiratory irritation.
	H413	May cause long lasting harmful effects to aquatic life.
	Precautionary statement(s)	
	P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove.
	Supplemental Hazard Statements	None.
	According to European Directive 67/548/EEC as amended.	
	Hazard symbol(s)	
	R-phrases(s)	

	R36/37/38	Irritating to eyes, respiratory system and skin.
	S-phrases)	
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
2.3	Other hazard	None.
3	COMPOSITION/INFORMATION ON INGREDIENTS	
3.1	Substances	
	Molecular Formula	C ₂₂ H ₂₉ N ₃ O
	Molecular Weight	351.49 g/mol.
	Component	Concentration.
	2-(2H-benzotriazol-2-yl)-4, 6-ditertpentylphenol.	<= 100 %
	CAS- No.	25973-55-1
	EC-No.	247-384-8
4	FIRST AID MEASURES	
4.1	Description of first aid measures.	
	General advice.	
	Consult a physician. Show this safety data sheet to the doctor in attendance.	
	If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
	In case of skin contact	Wash off with soap and plenty of water. Consult a physician.
	In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
	If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water.
4.2	Most important symptoms and effects, both acute and delayed.	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
4.3	Indication of any immediate medical attention and special treatment needed.	
	No data available.	
5	FIREFIGHTING MEASURES.	
5.1	Extinguishing media.	
	Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2	Special hazards arising from the substance or mixture	Carbon oxides, nitrogen oxides (NO _x).
5.3	Advice for fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.
5.4	Further information	No data available.
6	ACCIDENTAL RELEASE MEASURES.	
6.1	Personal precautions, protective equipment and emergency procedures.	
	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.	
6.2	Environmental precautions.	
	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.	
6.3	Methods and materials for containment and cleaning up.	
	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.	
6.4	Reference to other sections.	
	For disposal see section 13.	

7	HANDLING AND STORAGE	
7.1	Precautions for safe handling.	
	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.	
7.2	Information about protection against explosions and fires:	
	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.	
7.3	Conditions for safe storage, including any incompatibilities	
	No data available.	
	EXPOSURE CONTROLS/PERSONAL PROTECTION.	
8.1	Control parameters.	
	Components with workplace control parameter.	
8.2	Exposure control.	
	Appropriate engineering controls.	
	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	
	Personal protective equipment.	
	Eye/face protection.	
	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).	
	Hands protection.	
	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.	
	Skin and Body Protection.	
	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.	
	Respiratory Protection.	
	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).	
9	PHYSICAL AND CHEMICAL PROPERTIES	
	Information on basic physical and chemical properties	
a)	Appearance	Form: solid.
b)	Odour	No data available.
c)	Odour Threshold	No data available.
d)	pH (5% solution in water)	No data available.
e)	Melting point/freezing point	80 - 83 °C
f)	Initial boiling point and boiling range	No data available.
g)	Flash point	229 °C
h)	Evaporation rate	No data available.
i)	Flammability (solid, gas)	No data available.
j)	Upper/lower flammability or explosive limits	No data available.
k)	Vapour pressure	No data available.
l)	Vapour density	No data available.
m)	Relative density	1.17 g/cm ³
n)	Water solubility	<0.01gm/100 gm.
o)	Partition coefficient: noctanol/water	Log Pow 7.307
p)	Auto ignition temperature	No data available.
q)	Decomposition temperature	No data available.
r)	Viscosity	No data available.

s)	Explosive properties	No data available.
t)	Oxidizing properties	No data available.
9.2	Other safety information	
	SMILES	<chem>CCC(c1cc(n2nc3c(n2)cccc3)c(c(c1)C(CC)(C)C)O)(C)C</chem>
	Inch-I	1S/C22H29N3O/c1-7-21(3,4)15-13-16(22(5,6)8-2)20(26)19(14-15)25-23-17-11-9-10-12-18(17)24-25/h9-14,26H,7-8H2,1-6H3.
10	STABILITY AND REACTIVITY	
10.1	Reactivity	No data available.
10.2	Chemical stability	No data available.
10.3	Possibility of hazardous reactions	No data available.
10.4	Conditions to avoid	No data available.
10.5	Incompatible materials	Strong oxidizing agents.
10.6	Hazardous decomposition products	No data available.
11	TOXICOLOGICAL INFORMATION.	
11.1	Information on toxicological effects.	
	Acute toxicity	No data available.
	Skin corrosion/irritation	No data available.
	Serious eye damage/eye irritation	No data available.
	Respiratory or skin sensitization	No data available.
	Germ cell mutagenicity	No data available.
	Carcinogenicity	No data available.
	IARC	No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	Reproductive toxicity	No data available.
	Specific target organ toxicity - single exposure	Inhalation - May cause respiratory irritation.
	Specific target organ toxicity - repeated exposure	No data available.
	Aspiration hazard	No data available.
	Potential health effects	
	Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
	Ingestion	May be harmful if swallowed.
	Skin	May be harmful if absorbed through skin. Causes skin irritation.
	Eyes	Causes serious eye irritation.
	Signs and Symptoms of Exposure	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
	Additional Information	
	RTECS	No data available.
12	ECOLOGICAL INFORMATION	
12.1	Toxicity	No data available.
12.2	Persistence and degradability	No data available.
12.3	Bio accumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT and vPvB assessment	No data available.
12.6	Other adverse effects.	No data available.
13	DISPOSAL CONSIDERATIONS.	
13.1	Waste treatment methods.	
	Product	

	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.		
	Contaminated packaging		
	Dispose of as unused product.		
14	TRANSPORT INFORMATION.		
14.1	UN number		
	ADR/RID	IMDG	IATA
14.2	UN proper shipping name		
	ADR/RID	IMDG	IATA
	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3	Transport hazard class(es)		
	ADR/RID	IMDG	IATA
14.4	Packaging group		
	ADR/RID	IMDG	IATA
14.5	Environmental hazards		
	ADR/RID	IMDG Marine pollutant	IATA
	No	No	No
14.6	Special precautions for user		
	No data available.		
15	REGULATORY INFORMATION		
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture.		
	No data available.		
15.2	Chemical Safety Assessment.		
	No data available.		
16	OTHER INFORMATION		
	Further information.		