SAFETY DATA SHEET

PowerCure[™] 2EAQ

Version 6.4R

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

Product Identifier			
Product Name:	PowerCure™ 2EAQ		
Chemical Name:	2-Ethylanthraquinone		
Relevant identified uses of the su	bstance 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.		
	4F, Building 01, Xincheng Technology Park, No. 69		
	Olympic Avenue, Nanjing, China		
	Email: SDS@Tintoll.com		
Emergency Telephone Number:	+86-25-8468-0091		

SECTION 2: Hazardous identification

Summary of emergency

Flakes, finecrystalline yellow May cause damage to organs (Blood, spleen) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Show this material safety data sheet to the doctor in attendance. After inhalation: fresh air. Call in physician. In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. After eye contact: rinse out with plenty of water.

Remove contact lenses. After swallowing: immediately make victim drink water (two glasses at most). Consult a physician. Combustible. Development of hazardous combustion gases or vapors possible in the event of fire. Violent reactions possible with: Strong oxidizing agents

GHS Classification

Specific target organ toxicity - repeated exposure, Oral (Category 2), Blood, spleen, H373

Short-term (acute) aquatic hazard (Category 1), H400

Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS Label elements, including precautionary statements



Pictogram Signal Word Hazard statement(s) H373

Warning

May cause damage to organs (Blood, spleen) through prolonged or



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	repeated exposure if swallowed.	
H410	Very toxic to aquatic life with long lasting effects.	
Precautionary statement(s)		
Prevention		
P260	Do not breathe dust.	
P273	Avoid release to the environment.	
Response		
P314	Get medical advice/ attention if you feel unwell.	
P391	Collect spillage.	
Disposal		
P501	Dispose of contents/ container to an approved waste disposal	
	plant.	
Reduced Labeling (<= 12		
Diotogram		
Dictogram		
Pictogram	\mathbf{v} \mathbf{v}	
Signal Word	Warning	
-	Warning	
Signal Word	Warning May cause damage to organs (Blood, spleen) through prolonged repeated exposure if swallowed.	
Signal Word Hazard statement(s)	May cause damage to organs (Blood, spleen) through prolonged	
Signal Word Hazard statement(s) H373	May cause damage to organs (Blood, spleen) through prolonged repeated exposure if swallowed.	
Signal Word Hazard statement(s) H373 H410	May cause damage to organs (Blood, spleen) through prolonged repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. none	
Signal Word Hazard statement(s) H373 H410 Precautionary statement(s) Physical and chemical ha	May cause damage to organs (Blood, spleen) through prolonged repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. none	
Signal Word Hazard statement(s) H373 H410 Precautionary statement(s) Physical and chemical ha	May cause damage to organs (Blood, spleen) through prolonged repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. none ards	
Signal Word Hazard statement(s) H373 H410 Precautionary statement(s) Physical and chemical ha Referring to current informa	May cause damage to organs (Blood, spleen) through prolonged repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. none ards	
Signal Word Hazard statement(s) H373 H410 Precautionary statement(s) Physical and chemical ha Referring to current informa Health hazards	May cause damage to organs (Blood, spleen) through prolonged repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. none ards ion, no physical or chemical hazard.	
Signal Word Hazard statement(s) H373 H410 Precautionary statement(s) Physical and chemical ha Referring to current informa Health hazards	May cause damage to organs (Blood, spleen) through prolonged repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. none ards ion, no physical or chemical hazard. May cause damage to organs through prolonged or repeated	
Signal Word Hazard statement(s) H373 H410 Precautionary statement(s) Physical and chemical ha Referring to current informa Health hazards H373	May cause damage to organs (Blood, spleen) through prolonged repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. none ards ion, no physical or chemical hazard. May cause damage to organs through prolonged or repeated	

SECTION 3: Composition/information on ingredients

Substance / Mixture: Substances Formula: Molecular weight: Substance

C₁₆H₁₂O₂ 236,27 g/mol



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CAS-No. : EC-No. : Hazardous ingredients	84-51-5 201-535-4	
Component	Classification	Concentration
2-Ethylanthraquinone		
	Specific target organ toxicity - repeated exposure Category 2; Short-term (acute) aqua hazard Category 1; Lon (chronic) aquatic hazard Category 1; H37 H400, H410 M-Factor - Aquatic Acut 1 - Aquatic Chronic: 1	ng term 73,

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder



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Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Development of hazardous combustion gases or vapors possible in the event of fire.

Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact.

Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry.

Storage class

Storage class (TRGS 510): 11: Combustible Solids

SECTION 8: Exposure Controls/Personal Protection



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Control parameters	5	
-	orkplace control parameters	
Contains no substan	ces with occupational exposu	re limit values.
Exposure controls		
Appropriate engine	ering controls	
Change contaminate substance.	ed clothing. Preventive skin pro	otection recommended. Wash hands after working with
Personal protective	e equipment	
Eye/face protection)	
	ye protection tested and appro 66(EU). Safety glasses	oved under appropriate government standards such a
Skin protection		
This recommendatio	n applies only to the product s	stated in the safety data sheet, supplied by us and for
the designated use.	When dissolving in or mixing v	with other substances and under conditions deviating
from those stated in	EN374 please contact the sup	oplier of CE-approved gloves.
Full contact		
Material: Nitrile rubb	er	
Minimum layer thick	ness: 0.11 mm	
Break through time:	480 min	
This recommendatio	n applies only to the product s	stated in the safety data sheet, supplied by us and for
the designated use.	When dissolving in or mixing v	with other substances and under conditions deviating
from those stated in	EN374 please contact the sup	oplier of CE-approved gloves.
Splash contact		
Material: Nitrile rubb		
Minimum layer thick	ness: 0.11 mm	
Break through time:	480 min	
Body Protection		
protective clothing		
Respiratory protect		
required when dusts	•	
	• • • • •	ction are based on the following standards: DIN EN 14
		ating to the used respiratory protection system.
Control of environr	-	
Do not let product er	nter drains.	
ECTION 9: Physica		

Physical state flakes, finecrystalline



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Color		,	yellow	
Odor I		No data available		
Melting point/freezing point		• •	Melting point/range: 108 - 111 °C - lit.	
Initial boiling point and boili	ng range	400 °C at 994 h	4 hPa - OECD Test Guideline 103	
Flammability (solid, gas)		No data availabl	ble	
Upper/lower flammability	or	No data availabl	le	
explosive limits				
Flash point		No data availabl	le	
Auto-ignition temperature No data available		le		
Decomposition temperature	Decomposition temperature No data availa		ble	
pH No data available		le		
Viscosity No data available		e		
Water solubility		0.00025 g/l at 20 °C - OECD Test Guideline 105- slightly		
		soluble		
Partition coefficient: n-octanol/water		log Pow: 4.6 - OECD Test Guideline 117 – Potential		
		bioaccumulation		
Vapor pressure		No data available		
Density		1.27 g/cm ³ at 21 °C - OECD Test Guideline 109		
Relative density		No data available		
Relative vapor density		No data available		
Particle characteristics		No data available		
Explosive properties No data av		No data availabl	available	
Oxidizing properties none		none		
Other safety information				
No data available				

SECTION 10: Stability And Reactivity

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

Possibility of hazardous reactions

- Violent reactions possible with:
- Strong oxidizing agents
- Conditions to avoid
- no information available
- Incompatible materials
- No data available
- Hazardous decomposition products
- In the event of fire: see section 5



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SECTION 11: Toxicological Information

Information on toxicological effects Acute toxicity LD50 Oral - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 401) Inhalation: No data available LD50 Dermal - Rabbit - male and female - > 20,000 mg/kg Remarks: (ECHA) Skin corrosion/irritation Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405) Respiratory or skin sensitization Local lymph node assay (LLNA) - Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429) Germ cell mutagenicity Test Type: Ames test Test system: S. typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 **Result: negative** Test Type: Chromosome aberration test in vitro Test system: Chinese hamster cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 **Result:** positive Test Type: Micronucleus test Species: Rat Cell type: Bone marrow **Application Route: Gavage** Method: OECD Test Guideline 474 **Result:** negative



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• • • •					
Carcinogenicity					
No data available					
Reproductive toxicity					
No data available	No data available				
Specific target organ tox	Specific target organ toxicity - single exposure				
No data available	No data available				
Specific target organ tox	icity - repeated exposure				
Ingestion - May cause dam	age to organs through prolonge	d or repeated exposure Blood, spleen			
Aspiration hazard					
No data available					
Additional Information					
To the best of our knowled	ge, the chemical, physical, and t	oxicological properties have not been			
thoroughly investigated.					

SECTION 12: Ecological Effects

Toxicity

Toxicity to fish semi-static test LC50 - Poecilia reticulata (guppy) - > 0.37 mg/l - 96h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 0.27 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green algae) - >0.28 mg/l - 96 h (OECD Test Guideline 201) static test NOEC - Pseudokirchneriella subcapitata (green algae) -0.15 mg/l - 96 h (OECD Test Guideline 201) Toxicity to bacteria static test EC50 - activated sludge - > 100 mg/l - 3 h (OECD Test Guideline 209) Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 81 % - Readily biodegradable. (OECD Test Guideline 301D) Remarks: The 10 day time window criterion is not fulfilled. **Bioaccumulative potential** Bioaccumulation



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Cyprinus carpio (Carp) - 7 d				
at 25 °C - 0.0135 mg/l(2-Ethylanthraquinone)				
Bioconcentration factor (BCF): 560 - 1,350				

(OECD Test Guideline 305) **Mobility in soil** No data available **Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted. **Other adverse effects**

No data available

SECTION 13:Disposal considerations

Waste treatment methods

Product:

Offer surplus and non-recyclable solutions to a licensed disposal company.

Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

SECTION 14:Transport Information

UN number					
ADR/RID: 3077	IMDG: 3077	IATA: 3077			
UN proper shipping name					
ADR/RID: ENVIRONMENTALL	ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-Ethylanthraquinone)				
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-Ethylanthraquinone)					
IATA-DGR: Environmentally ha	IATA-DGR: Environmentally hazardous substance, solid, n.o.s. (2-Ethylanthraquinone)				
Transport hazard class(es)					
ADR/RID: 9	IMDG: 9	IATA: 9			
Packing group					
ADR/RID: III	IMDG: III	IATA: III			
Environmental hazards					
ADR/RID: yes	IMDG Marine Pollutant: yes	IATA: yes			
Special precautions for user					
no data available					
Further information					
EHS-Mark required (ADR 2.2	.9.1.10, IMDG code 2.10.3) for single	packagings and combination			
packagings containing inner pa	ackagings with Dangerous Goods > 5L	for liquids or > 5kg for solids.			



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SECTION 15:Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture National regulatory information

National regulatory informa

Other regulations

Please pay attention on the waste treatment should also comply with local regulations requirement.

SECTION 16:Other Information

Full text of H-Statements referred to under sections 2 and 3.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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.

