

SECTION 1: Identification of the substance/mixture and of the company**Product Identifier**

Product Name: PowerCure™ 2959
Chemical Name: 2-hydroxy-1[4-(2-hydroxyethoxy) phenyl]-2-methyl-1-propanone
CAS-No.: 106797-53-9

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.
A703, No.50 Jialingjiang East St, Nanjing, China
Email: SDS@TinToll.com

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

SECTION 2: Hazardous identification**Hazard classification according to GHS**

Not considered a dangerous substance according to GHS(the 6th revised edition).

Label elements

Hazard pictograms Not applicable.
Signal word Not applicable.

Hazard statements

Not applicable.

Precautionary statements**Prevention**

Not applicable.

Response

Not applicable.

Storage

Not applicable.

Disposal

Not applicable.

Hazard description

Physical and chemical

hazards Data conclusive but not sufficient for classification.

Health hazards Data conclusive but not sufficient for classification.

Environment hazards Data conclusive but not sufficient for classification.

SECTION 3: Composition/information on ingredients

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Component	CAS NO.	EC NO.	Concentration percent %
2-hydroxy-1[4-(2-hydroxyethoxy)phenyl]-2-methyl-1-propanone	106797-53-9	402-670-3	≥98.0

SECTION 4: First aid measures**Description of first aid measures****General advice**

Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

If inhaled

Remove person to fresh air and keep comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration. Get medical attention.

In case of skin contact

Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

In case of eye contact

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Remove contact lenses if possible. Obtain medical attention.

If swallowed

Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Protecting of first-aiders

Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Symptoms may be delayed.

SECTION 5: Firefighting measures

Extinguishing media**Suitable extinguishing media**

Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

High volume water jet.

Special hazards arising from the substance or mixture

Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.

Slight fire hazard when exposed to heat or flame. Hazardous combustion products: Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours. Carbon monoxide (CO).

Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).

Advice for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used.

Uninvolved persons should evacuate to a safe place.

In case of fire in the surroundings, keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges.

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapors and contacting with skin and eyes.

Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static Discharges

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Methods and materials for containment and cleaning up

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed

containers for disposal.

Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

SECTION 7: Handling and storage

Precautions for safe handling

Handling is performed in a well ventilated place.

Wear suitable protective equipment.

Avoid contact with skin and eyes. Avoid inhalation of dust.

Keep away from heat/sparks/open flames/ hot surfaces.

Precautions for storage

Store in original containers.

Keep containers securely sealed.

Store in a cool, dry area protected from environmental extremes.

Store away from incompatible materials and foodstuff containers.

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational Exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
2-hydroxy-1[4-(2-hydroxyethoxy)phenyl]-2-methyl-1-propanone CAS NO.: 106797-53-9	Australia	-	-	-	-
	Denmark	-	-	-	-
	Germany (AGS)	-	-	-	-
	Ireland	-	-	-	-
	South Korea	-	-	-	-
	USA(OSHA)	-	-	-	-

Biological limit values

No information available.

Monitoring methods

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents .

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Ensure that eyewash stations and safety showers are close to the workstation location.

Use explosion-proof electrical/ventilating/lighting/equipment.

Personal protective equipment

General requirement



Eye protection

Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).

Hand protection

Protective gloves (such as butyl rubber), approved by EN 374(EU).

Skin and body protection

Wear fire/flame resistant/retardant clothing and antistatic boots.

Respiratory protection

Use appropriate respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended Filter type: low boiling organic solvent, Type AX, Brown, conforming to EN371.

SECTION 9: Physical and chemical properties

Physical and chemical properties

Appearance:	White crystalline powder
Odour	No data available.
Odour Threshold	No data available.
pH	No data available.
Melting point/freezing point	87-91 °C
Initial boiling point and boiling range	331°C (101.3kPa)
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	Non flammable
Upper/lower explosive limits	No data available.
Vapour pressure	0.00007 Pa at 25 °C
Vapour density	No data available.
Relative density	1.284 (20 °C)
Water solubility	7.6 g/L (25 °C, pH 6)
n-octanol/water partition coefficient	log Kow (log Pow): 0.84 at 23 °C at pH 6.2

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Auto-ignition temperature	No data available.
Decomposition temperature	Not applicable.
Viscosity	Not applicable.

SECTION 10: Stability and reactivity

Reactivity

The substance is stable under normal storage and handling conditions.

Chemical stability

Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous reactions.

No potentially hazardous reactions known.

Conditions to avoid

Incompatible materials. Keep away from heat, sparks and open flame.

Avoid exposure to high temperatures or direct sunlight.

Incompatible materials

Materials to avoid: Strong acids, strong alkalis, oxidising agents.

Hazardous decomposition products

Does not decompose when used and stored as recommended. In case of fire may release the following substances: Toxic and corrosive gases or vapours. Carbon monoxide (CO).

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

LD50 Oral	rat – >3198mg/kg bw
LD50 dermal	rat – >5000 mg/kg bw
LC50(inhalation)	No data available.
LD50 (Intraperitoneal)	Not classified.

Skin corrosion/irritation

Not classified.

Serious eye damage/eye irritation

Not classified.

Respiratory or skin sensitisation

Not classified.

Germ cell mutagenicity

Not classified.

Carcinogenicity

IARC: 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.

Reproductive toxicity

Not classified.

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard

No data available.

SECTION 12: Ecological information**Acute (short-term) toxicity**

Toxicity to Fish LC50 (96h) >147 mg/L (96h)

Toxicity to Invertebrates EC50 (48h) >615 mg/L (48h)

Toxicity to Algae/aquatic plants EC50 (72h) >97.6 mg/L (72h)

Chronic (long-term) toxicity

NOEC(Fish) Not available

NOEC(Daphnia) Not available

NOEC(Algae/aquatic plants) 5.3 mg/L (72h)

Persistence and degradability

Inherently biodegradable and not readily biodegradable.

Bioaccumulative potential

No information available

Mobility in soil

Koc at 20 °C: 11.2; LogKoc: 1.05

The substance is expected not to adsorb to particulate matter.

Results of PBT and vPvB assessment

The substance is not PBT / vPvB.

Other adverse effects

Not available.

SECTION 13: Disposal considerations**Waste chemicals**

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

Contaminated packaging

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Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire.
Return to supplier for recycling if possible.

Disposal recommendations

Refer to section 13.

SECTION 14: Transportation information

UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	
ADR/RID	Not regulated
IMDG/IMO	Not regulated
ICAO/IATA	Not regulated
Packaging group	
ADR/RID	Not regulated
IMDG/IMO	Not regulated
ICAO/IATA	Not regulated
Environmental hazards	
Marine pollutant	NO
Special precautions for user	See section 2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated

SECTION 15: Regulatory information

International chemical inventory	
EINECS/ELINCS	Listed
TSCA	Listed
DSL	Listed
IECSC	Listed
NZLoC	Listed
PICCS	Listed
KECI	Listed

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.