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

Product Name: PowerCure™ 184  
Chemical Name: 1-Hydroxycyclohexyl phenyl ketone

**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.  
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****Classification of the substance or mixture**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**Label elements**

Not a hazardous substance or mixture.

**Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients****Substances**

Formula:  $C_{13}H_{16}O_2$   
Molecular weight: 204,26 g/mol  
CAS-No. : 947-19-3  
EC-No. : 213-426-9

No components need to be disclosed according to the applicable regulations.

**SECTION 4: First aid measures****Description of first-aid measures**

If inhaled

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If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

**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**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture**

Carbon oxides

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

No data available

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapors, mist or gas.

For personal protection see section 8.

**Environmental precautions**

No special environmental precautions required.

**Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to other sections**

For disposal see section 13.

## SECTION 7: Handling and storage

### Precautions for safe handling

#### Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

#### Hygiene measures

General industrial hygiene practice.

For precautions see section 2.

#### Conditions for safe storage, including any incompatibilities

##### Storage conditions

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

##### Storage class

Storage class (TRGS 510): 13: Non Combustible Solids

##### Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

## SECTION 8: Exposure Controls/Personal Protection

### Control parameters

Ingredients with workplace control parameters

#### Exposure controls

Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin 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.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

#### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use

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type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

No special environmental precautions required.

## SECTION 9: Physical and Chemical Properties

**Information on basic physical and chemical properties**

Physical state	powder
Color	No data available
Odor	No data available
Melting point/freezing point	Melting point/range: 47 - 50 °C - lit.
Initial boiling point and boiling range	175 °C at 20 hPa - lit.
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Flash point	164 °C - closed cup
Auto-ignition temperature	424 °C
Decomposition temperature	No data available
pH	No data available
Viscosity	No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	log Pow: 2,81 at 25 °C
Vapor pressure	No data available
Density	1,182 g/cm <sup>3</sup> at 20 °C
Relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	No data available
Oxidizing properties	No data available
<b>Other safety information</b>	
Surface tension	60,2 mN/m at 20 °C

## SECTION 10: Stability And Reactivity

**Reactivity**

No data available



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**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Incompatible materials**

Strong oxidizing agents

**Hazardous decomposition products**

In the event of fire: see section 5

**SECTION 11: Toxicological Information****Information on toxicological effects****Acute toxicity**

LD50 Oral - Rat - male and female - &gt; 2.500 mg/kg

LC50 Inhalation - Rat - male and female - 4 h - &gt; 1 mg/l

(OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - &gt; 5.000 mg/kg

(OECD Test Guideline 402)

**Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation - 24 h

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

**Respiratory or skin sensitization**

Maximization Test - Guinea pig

Result: Does not cause skin sensitization.

(OECD Test Guideline 406)

**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

Species: Hamster

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Application Route: Oral

Method: Mutagenicity (micronucleus test)

Result: negative

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

Repeated dose toxicity - Rat - male and female - Oral - NOAEL (No observed adverse effect level) - 50 mg/kg

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12: Ecological Effects

**Toxicity**

Toxicity to fish

static test LC50 - Danio rerio (zebra fish) - 24 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

Immobilization EC50 - Daphnia magna (Water flea) - 59,3 mg/l - 48h

(OECD Test Guideline 202)

Toxicity to algae

Growth inhibition EC50 - Desmodesmus subspicatus (green algae) -14,4 mg/l - 72 h

(OECD Test Guideline 201)

Toxicity to bacteria

Respiration inhibition EC50 - Sludge Treatment - > 100 mg/l - 3 h

**Persistence and degradability**

Biodegradability

aerobic - Exposure time 28 d

Result: 80 % - Readily biodegradable.

**Bioaccumulative potential**

No data available

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**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

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**Endocrine disrupting properties**

No data available

**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.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14: Transport Information**

**UN number**

ADR/RID: -

IMDG: -

IATA: -

**UN proper shipping name**

ADR/RID:

Not dangerous goods

IMDG:

Not dangerous goods

IATA:

Not dangerous goods

**Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**Packing group**

ADR/RID: -

IMDG: -

IATA: -

**Environmental hazards**

ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

**Special precautions for user**

no data available

**SECTION 15: Regulatory Information**



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**Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

**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.