

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

Product Name: PowerCure™ 379
Chemical Name: 2-Dimethylamino-2-(4-methyl-benzyl)-1-(4-morpholin-4-yl-phenyl)-butan-1-one
CAS-No.: 119344-86-4

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**

Reproductive toxicity Category 2
Hazardous to the aquatic environment, long-term (chronic) Category 1

Label elements

Hazard pictograms



Signal word Warning

Hazard statements

H361 Suspected of damaging fertility or the unborn child (Specific effect: developmental toxicity) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements**Prevention**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precaution have been read and understood.

Version 6.3P	Page 2 / 9	Revision Date 05.12.2022
--------------	------------	--------------------------

P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response

P308+P313 IF exposed or concerned, get medical advice/attention.
 P391 Collect spillage.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard description

Physical and chemical hazards Data conclusive but not sufficient for classification.
 Health hazards Suspected of damaging fertility or the unborn child (Specific effect: developmental toxicity) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
 Environment hazards Very toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

Component	CAS NO.	EC NO.	Concentration percent %
2-Dimethylamino-2-(4-methyl-benzyl)-1-(4-morpholin-4-yl-phenyl)-butan-1-one	119344-86-4	438-340-0	≥98.5

SECTION 4: First aid measures

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Remove from exposure, taking care to avoid inhaling vapours. Keep warm rest. Obtain medical attention if symptoms appear.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash thoroughly with soap and water. Consult a physician if feel uncomfortable.

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

Never give anything by mouth to an unconscious person. Rinse mouth immediately and then drink plenty of water, seek medical attention.

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 extinguishing measures that are appropriate to local circumstances and the surrounding environment. Such as dry powder, foam.

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.

Combustion of vapor and liquid may produce carbon monoxide, carbon dioxide and other hazardous gases.

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

Alert Fire Brigade and tell them location and nature of hazard.

Wear self-contained breathing apparatus for firefighting if necessary.

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

In case of fire in the surroundings, keep containers cool by spraying with water.

Eliminate all ignition sources if safe to do so.

Uninvolved persons should evacuate to a safe place.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

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

For personal protection see section 8.

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.

Environmental precautions

Do not let product enter drains.

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.

Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

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.

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

For precautions see section 2.2.

Precautions for storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

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

Store away from incompatible materials such as oxidizing agents and other incompatible materials.

Store away from 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-Dimethylamino-2-(4-methylbenzyl)-1-(4-morpholin-4-ylphenyl)-butan-1-one	Australia	-	-	-	-
	Denmark	-	-	-	-

Version 6.3P	Page 5 / 9	Revision Date 05.12.2022
--------------	------------	--------------------------

CAS No.:119344-86-4	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

Handle in accordance with good industrial hygiene and safety practice.

Ensure adequate ventilation, especially in confined areas.

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

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.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

Physical and chemical properties

Appearance: Pale yellow solid

Version 6.3P

Page 6 / 9

Revision Date 05.12.2022

Odour	Light
Odour Threshold	No data available.
pH	No data available.
Melting point/freezing point	87-96 °C at 101.3 kPa
Initial boiling point and boiling range	Not available. The substance decomposed before boiling.
Flash point	178 °C at 1013 hPa (closed cup)
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower explosive limits	No data available.
Vapour pressure	1.3E-10 Pa at 25 °C (calculated)
Vapour density	No data available.
Relative density	1.16 (20 °C)
Water solubility	1.9 mg/L (20 °C, pH 6.8)
n-octanol/water partition coefficient	log Kow (log Pow): 4.1 at 25 °C at pH 8.1
Auto-ignition temperature	No data available.
Decomposition temperature	> 270 °C
Viscosity	Not applicable.

SECTION 10: Stability and reactivity

Reactivity

No information available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions.

Dust explosion hazard.

Conditions to avoid

Incompatible materials. Avoid dust formation. Avoid deposition of dust.

Avoid sources of ignition. Avoid electro-static discharge. Avoid light.

Incompatible materials

Strong oxidizing agents, strong acids, strong bases.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. – Carbon monoxide and nitrogen oxide.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Version 6.3P

Page 8 / 9

Revision Date 05.12.2022

The test substance is not bioaccumulative according to PBT-criteria.

Mobility in soil

Koc at 20 °C: 3 431; LogKoc: 3.5

These values indicate that the test substance is immobile and remains preferably in soil - adsorption to solid soil phase is expected.

Results of PBT and vPvB assessment

The substance is not PBT / vPvB.

Other adverse effects

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations**Waste chemicals**

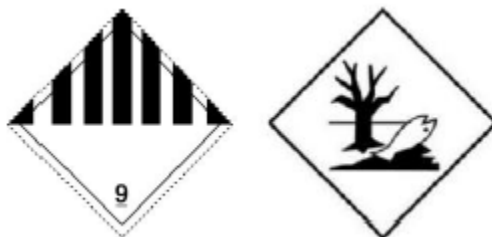
Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

Contaminated packaging

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**Label****UN number**

3077

UN proper shipping nameENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
2-Dimethylamino-2-(4-methyl-benzyl)-1-(4-morpholin-4-yl-phenyl)-
butan-1-one**Transport hazard class(es)****ADR/RID**

9

Version 6.3P	Page 9 / 9	Revision Date 05.12.2022
--------------	------------	--------------------------

IMDG/IMO	9
ICAO/IATA	9
Packaging group	
ADR/RID	III
IMDG/IMO	III
ICAO/IATA	III
Environmental hazards	
Marine pollutant	YES
Special precautions for user	See section 2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	IBC08

SECTION 15: Regulatory information

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