

# SAFETY DATA SHEET

## AKTIPLAST T



Version 1.0      Revision Date: 2019/05/08      SDS Number: 103000012131      Date of last issue: -  
Country / Language: HK / 6N

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : AKTIPLAST T

Product code : 56127848

#### Manufacturer or supplier's details

Supplier : 朗盛香港有限公司  
港島東 英皇道 979 號 太古坊  
康橋大廈 35 樓 3503-3504 室, 香港

Telephone : +85235268888

E-mail address of person responsible for the SDS : lxs-sds-china@lanxess.com

Emergency telephone number : 0049-214-30-99300 (German)

Supplier : LANXESS Hong Kong Limited  
Suites 3503-3504, 35/F Cambridge House  
TaiKoo Place, 979 King's Road Island East, Hong Kong, Hong Kong

Telephone : +85235268888

E-mail address of person responsible for the SDS : lxs-sds-china@lanxess.com

Emergency telephone : 0049-214-30-99300 (German)

#### Recommended use of the chemical and restrictions on use

Recommended use : processing promoter

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Dermal) : Category 5

#### GHS label elements

Hazard pictograms : None

Signal word : Warning

Hazard statements : H313 May be harmful in contact with skin.

Precautionary statements : **Response:**  
P302 + P352 + P312 IF ON SKIN: Wash with plenty of water.

# SAFETY DATA SHEET

## AKTIPLAST T



Version 1.0      Revision Date: 2019/05/08      SDS Number: 103000012131      Date of last issue: -  
Country / Language: HK / 6N

---

Call a POISON CENTER/doctor if you feel unwell.  
P312 Call a POISON CENTER/doctor if you feel unwell.

### Other hazards which do not result in classification

None known.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Fatty acids, rape-oil, zinc salts	68440-18-6	$\geq 90 - \leq 100$
2,6-di-tert-butyl-p-cresol	128-37-0	$\geq 0.1 - < 0.25$

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### 4. FIRST AID MEASURES

- General advice : Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : May be harmful in contact with skin.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician : No special measures required.
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### 5. FIREFIGHTING MEASURES

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# SAFETY DATA SHEET

## AKTIPLAST T



Version 1.0      Revision Date: 2019/05/08      SDS Number: 103000012131      Date of last issue: -  
Country / Language: HK / 6N

---

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Metal oxides
- Specific extinguishing methods : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
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### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.
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### 7. HANDLING AND STORAGE

#### Handling

- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

#### Storage

- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Electrical installations / working materials must comply with the technological safety standards.
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# SAFETY DATA SHEET

## AKTIPLAST T



Version 1.0      Revision Date: 2019/05/08      SDS Number: 103000012131      Date of last issue: -  
Country / Language: HK / 6N

---

Further information on storage stability : No decomposition if stored and applied as directed.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2,6-di-tert-butyl-p-cresol	128-37-0	TWA (Inhalable fraction and vapor)	2 mg/m <sup>3</sup>	ACGIH

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

#### Personal protective equipment

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Hand protection

Material : Nitrile rubber - NBR  
Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granular  
Colour : brown  
Odour : No data available  
Odour Threshold : No data available

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# SAFETY DATA SHEET

## AKTIPLAST T



Version 1.0      Revision Date: 2019/05/08      SDS Number: 103000012131      Date of last issue: -  
Country / Language: HK / 6N

---

pH : No data available

Melting point/range : 75 - 85 °C

Boiling point/boiling range : No data available

Flash point : > 200 °C  
Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1.05 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : insoluble

Partition coefficient: n-octanol/water : No data available

Ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Molecular weight : No data available

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### 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

# SAFETY DATA SHEET

## AKTIPLAST T



Version 1.0      Revision Date: 2019/05/08      SDS Number: 103000012131      Date of last issue: -  
Country / Language: HK / 6N

---

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.  
Stable under recommended storage conditions.  
No hazards to be specially mentioned.  
Dust may form explosive mixture in air.

Conditions to avoid : No data available

Incompatible materials : No specific data.

Hazardous decomposition products : No hazardous decomposition products are known.

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### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

May be harmful in contact with skin.  
May be harmful in contact with skin.

#### Product:

Acute dermal toxicity : Acute toxicity estimate: 2,507 mg/kg  
Method: Calculation method

#### Components:

##### Fatty acids, rape-oil, zinc salts:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

##### 2,6-di-tert-butyl-p-cresol:

Acute oral toxicity : LD50 (Rat, male and female): > 2,930 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Dosage caused no mortality

#### Skin corrosion/irritation

Not classified based on available information.  
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---

# SAFETY DATA SHEET

## AKTIPLAST T



Version 1.0      Revision Date: 2019/05/08      SDS Number: 103000012131      Date of last issue: -  
Country / Language: HK / 6N

---

### Components:

#### **Fatty acids, rape-oil, zinc salts:**

Species: Rabbit  
Result: No skin irritation

#### **2,6-di-tert-butyl-p-cresol:**

Species: Rabbit  
Exposure time: 24 h  
Remarks: Mild skin irritation  
(not subject to classification)

#### **Serious eye damage/eye irritation**

Not classified based on available information.  
Not classified based on available information.

### Components:

#### **Fatty acids, rape-oil, zinc salts:**

Species: Rabbit  
Result: No eye irritation

#### **2,6-di-tert-butyl-p-cresol:**

Species: Rabbit  
Exposure time: 24 h  
Remarks: Mild eye irritation  
(not subject to classification)

#### **Respiratory or skin sensitisation**

##### **Skin sensitisation**

Not classified based on available information.

##### **Skin sensitisation**

Not classified based on available information.

##### **Respiratory sensitisation**

Not classified based on available information.

##### **Respiratory sensitisation**

Not classified based on available information.

### Components:

#### **Fatty acids, rape-oil, zinc salts:**

Exposure routes: Skin contact  
Species: Guinea pig  
Result: Did not cause sensitisation on laboratory animals.

#### **2,6-di-tert-butyl-p-cresol:**

Version 1.0      Revision Date: 2019/05/08      SDS Number: 103000012131      Date of last issue: -  
Country / Language: HK / 6N

---

Exposure routes: Skin contact  
Species: Human  
Result: Does not cause skin sensitisation.

### **Germ cell mutagenicity**

Not classified based on available information.  
Not classified based on available information.

### **Components:**

#### **2,6-di-tert-butyl-p-cresol:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Test system: rat hepatocytes  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Cytogenetic assay  
Species: Rat (male)  
Cell type: Bone marrow  
Application Route: Oral  
Result: negative

Test Type: Micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Result: negative

### **Carcinogenicity**

Not classified based on available information.  
Not classified based on available information.

### **Components:**

#### **2,6-di-tert-butyl-p-cresol:**

Species: Rat, (male and female)  
NOAEL: 247 mg/kg bw/day  
Target Organs: Liver

### **Reproductive toxicity**

Not classified based on available information.



# SAFETY DATA SHEET

## AKTIPLAST T



Version 1.0      Revision Date: 2019/05/08      SDS Number: 103000012131      Date of last issue: -  
Country / Language: HK / 6N

---

Not classified based on available information.

### Components:

#### **2,6-di-tert-butyl-p-cresol:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Fertility: NOAEL: 500 mg/kg body weight  
GLP: yes

Effects on foetal development : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 100 mg/kg body weight  
Developmental Toxicity: NOAEL: 100 mg/kg body weight  
GLP: yes

#### **STOT - single exposure**

Not classified based on available information.  
Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.  
Not classified based on available information.

#### **Repeated dose toxicity**

### Components:

#### **2,6-di-tert-butyl-p-cresol:**

Species: Rat, male  
NOAEL: 25 mg/kg  
Application Route: Oral  
Exposure time: 35 - 56 d  
Number of exposures: daily  
GLP: yes  
Target Organs: Liver  
Symptoms: alteration in liver enzymes

#### **Aspiration toxicity**

Not classified based on available information.  
Not classified based on available information.

#### **Further information**

### Product:

Remarks: No data available

Version 1.0      Revision Date: 2019/05/08      SDS Number: 103000012131      Date of last issue: -  
Country / Language: HK / 6N

---

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### **2,6-di-tert-butyl-p-cresol:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0.57 mg/l  
Exposure time: 96 h  
Method: Regulation (EC) No. 440/2008, Annex, C.1  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.48 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae : EC50 ( Desmodesmus subspicatus (green algae)): > 0.4 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: Regulation (EC) No. 440/2008, Annex, C.3  
GLP: yes
- NOEC ( Desmodesmus subspicatus (green algae)): 0.4 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: Regulation (EC) No. 440/2008, Annex, C.3  
GLP: yes
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
GLP: yes
- Toxicity to fish (Chronic toxicity) : NOEC: 0.053 mg/l  
Exposure time: 42 d  
Species: Oryzias latipes (Orange-red killifish)  
Method: OECD Test Guideline 210  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.023 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202  
GLP: yes
- M-Factor (Chronic aquatic toxicity) : 1

# SAFETY DATA SHEET

## AKTIPLAST T



Version 1.0      Revision Date: 2019/05/08      SDS Number: 103000012131      Date of last issue: -  
Country / Language: HK / 6N

---

toxicity)

### Persistence and degradability

#### Components:

##### **2,6-di-tert-butyl-p-cresol:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 4.5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

### Bioaccumulative potential

#### Components:

##### **2,6-di-tert-butyl-p-cresol:**

Bioaccumulation : Bioconcentration factor (BCF): > 2,000  
Partition coefficient: n-octanol/water : log Pow: 5.1  
Method: measured

### Mobility in soil

#### Components:

##### **2,6-di-tert-butyl-p-cresol:**

Distribution among environmental compartments : Koc: 14750, log Koc: 3.9 - 4.2  
Method: estimated

### Other adverse effects

#### Product:

Additional ecological information : No data available

#### Components:

##### **2,6-di-tert-butyl-p-cresol:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).  
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.

# SAFETY DATA SHEET

## AKTIPLAST T



Version 1.0      Revision Date: 2019/05/08      SDS Number: 103000012131      Date of last issue: -  
Country / Language: HK / 6N

---

Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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### 14. TRANSPORT INFORMATION

#### International Regulations

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

##### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Hazard statements : Not dangerous cargo.  
Keep separated from foodstuffs.

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### 15. REGULATORY INFORMATION

#### National regulatory information

International Chemical Weapons Convention (CWC) : Not applicable  
Schedules of Toxic Chemicals and Precursors

Further information : Dangerous Goods Ordinance (Cap295)  
Factories and Industrial Undertaking Ordinance (Cap59),  
F&IU (Dangerious Substances) Regulations  
Waste Disposal Ordinance Waster Disposal (Chemical Waste)  
(General) Regulations (Cap354)  
Air Pollution Control Ordinance Air Pollution (Volatile Organic  
Compounds) Regulation (Cap311)  
Code of Practice on Control of Air Impurities (Chemical Sub-  
stance) in the Workplace

#### Other international regulations

# SAFETY DATA SHEET

## AKTIPLAST T



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2019/05/08	103000012131	Country / Language: HK / 6N

---

### 16. OTHER INFORMATION

#### Full text of other abbreviations

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

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