

■ MATERIAL SAFETY DATA SHEET

Manufacturer: Kon Corporation
Address: 91-1150aza Miyano, Yamauchi-cho,
 Kishima-gun, Saga-prefecture, Japan
Research and Development: Titanium business department
Manager: Takaharu Fujii
Phone: 095-420-7092
Fax: 095-420-7116
In case of emergency contact: Quality control department
Phone: 095-420-7092

Serial number
Date issued July 20th, 2002.
Product name PTA-85

Material specifications	Chemical name: Peroxotitanium acid Content of the components: 0.85w% Components: Peroxotitanic acid New semi micro chemical substance: 5495 (Registered number to Japanese Ministry of Economy Trade and Industry) CAS Number: Not listed
Hazardous or Poisonous nature	Classification: Non hazardous (Innocuous material) Hazardousness: None Poisonous contents: None Environmental effect: None
In case of	Contact with eyes: Clean out eyes with water Contact with skin: Clean affected area with water Inhaling: Clean nose with water and then gargle to dean throat. Ingestion: Gargle with water and then drink
In case of fire	Fire extinguishing procedure: None (Non flammable) Fire extinguishing material: None needed (Non flammable)
In case of leaking	Wipe off or wash affected area with water
Storage	Store in a cool and dark place. Can not be refrigerated.
Physical and Chemical properties	Appearance: Yellowish suspended solution Odor: None True Specific gravity: 1.0 Boiling point: 100°C Volatility: Solubility: None Dissolve in water but not in oil

Continued

■ MATERIAL SAFETY DATA SHEET

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Phone: 095-420-7092

Serial number	July 20th, 2002.
Date issued	PTA-85
Product name	
Hazardous information	Combustibility: Incombustibility Flammability: None Explosive: None Stability: Stable Skin corrosiveness: None Irritability: Sub acute toxicity: None Acute toxicity: None Cancer causing: Non cancer causing
Environmental Affect ness	Degradability: None Accumulative: None Fish-toxicity: None
Chemical disposal	Drain into sewage disposal treatment tank or use regular water sewage system.
Transport handling	Leakage of liquid from container may happen.

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Phone:	095-420-7092

Serial number
Date issued July 20th, 2002.
Product name PTA-170

Material specifications	Chemical name: Peroxotitanium acid 1.70w% Content of the components: Peroxotitanic acid Components: New semi micro chemical substance: 5495 (Registered number to Japanese Ministry of Economy Trade and Industry) CAS Number Not listed
Hazardous or Poisonous nature	Classification: Non hazardous (Innocuous material) Hazardousness: None Poisonous contents: None Environmental effect: None
In case of	Contact with eyes: Clean out eyes with water Contact with skin: Clean affected area with water Inhaling: Clean nose with water and then gargle to dean throat. Ingestion: Gargle with water and then drink
In case of fire	Fire extinguishing procedure: None (Non flammable) Fire extinguishing material: None needed (Non flammable)
In case of leaking	Wipe off or wash affected area with water
Storage	Store in a cool and dark place. Can not be refrigerated.
Physical and Chemical properties	Appearance: Yellowish suspended solution Odor: None True Specific gravity: 1.0 Boiling point: 100°C Volatility: Solubility: None Dissolve in water but not in oil

Continued

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Phone: 095-420-7092

Serial number	July 20th, 2002.
Date issued	PTA-170
Product name	
Hazardous information	Combustibility: Incombustibility Flammability: None Explosive: None Stability: Stable Skin corrosiveness: None Irritability: Sub acute toxicity: None Acute toxicity: None Cancer causing: Non cancer causing
Environmental Affect ness	Degradability: None Accumulative: None Fish-toxicity: None
Chemical disposal	Drain into sewage disposal treatment tank or use regular water sewage system.
Transport handling	Leakage of liquid from container may happen.

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In case of emergency contact:	Quality control department
Phone:	095-420-7092

Serial number
Date issued July 20th, 2002.
Product name TO-85

Material specifications	Chemical name: peroxo-modified anatase sol Content of the components: 0.85w% Components: Titanium dioxide, Titanium dioxide: (Existing chemical substance): (1)-558 component): CAS number: 13463-67-7
Hazardous or Poisonous nature	Classification: Non hazardous (Innocuous material) Hazardousness: None Poisonous contents: None Environmental effect: None
In case of	Contact with eyes: Clean out eyes with water Contact with skin: Clean affected area with water Inhaling: Clean nose with water and then gargle to dean throat. Ingestion: Gargle with water and then drink
In case of fire	Fire extinguishing procedure: None (Non flammable) Fire extinguishing material: None needed (Non flammable)
In case of leaking	Wipe off or wash affected area with water
Storage	Store in a cool and dark place. Can not be refrigerated.
Physical and Chemical properties	Appearance: Yellowish suspended solution Odor: None True Specific gravity: 1.0 Boiling point: 100°C Volatility: Solubility: None Dissolve in water but not in oil

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Serial number	July 20th, 2002.
Date issued	TO-85
Product name	
Hazardous information	Combustibility: Incombustibility Flammability: None Explosive: None Stability: Stable Skin corrosiveness: None Irritability: Sub acute toxicity: None Acute toxicity: None Cancer causing: Non cancer causing
Environmental Affect ness	Degradability: None Accumulative: None Fish-toxicity: None
Chemical disposal	Drain into sewage disposal treatment tank or use regular water sewage system.
Transport handling	Leakage of liquid from container may happen.

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Phone: 095-420-7092

Serial number
Date issued
Product name

July 20th, 2002.
 TO-240

Material specifications	Chemical name: Peroxo-modified anatase sol Content of the components: 2.40w% Components: Titanium dioxide Titanium dioxide (Existing chemical component): CAS number: (1)-558 13463-67-7
Hazardous or Poisonous nature	Classification: Non hazardous (Innocuous material) Hazardousness: None Poisonous contents: None Environmental effect: None
In case of	Contact with eyes: Clean out eyes with water Contact with skin: Clean affected area with water Inhaling: Clean nose with water and then gargle to dean throat. Ingestion: Gargle with water and then drink
In case of fire	Fire extinguishing procedure: None (Non flammable) Fire extinguishing material: None needed (Non flammable)
In case of leaking	Wipe off or wash affected area with water
Storage	Store in a cool and dark place. Can not be refrigerated.
Physical and Chemical properties	Appearance: Yellowish suspended solution Odor: None True Specific gravity: 1.0 Boiling point: 100°C Volatility: Solubility: None Dissolve in water but not in oil

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Serial number	
Date issued	July 20th, 2002.
Product name	TO-240
Hazardous information	Combustibility: Incombustibility Flammability: None Explosive: None Stability: Stable Skin corrosiveness: None Irritability: Sub acute toxicity: None Acute toxicity: None Cancer causing: Non cancer causing
Environmental Affect ness	Degradability: None Accumulative: None Fish-toxicity: None
Chemical disposal	Drain into sewage disposal treatment tank or use regular water sewage system.
Transport handling	Leakage of liquid from container may happen.

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Phone: 095-420-7092

Serial number
Date issued July 20th, 2002.
Product name TPX-85

Material specifications	Chemical name: Mixed solution of peroxotitanic acid and peroxy-modified anatase sol Content of the components: 0.85w% Components: Titanium dioxide, Peroxotitanic acid Titanium dioxide (Existing chemical component): (1)-558 CAS number: 13463-67-7 Peroxotitanium acid New semi micro chemical substance: 5495 (Registered number to Japanese Ministry of Economy Trade and Industry)
Hazardous or Poisonous nature	Classification: Non hazardous (Innocuous material) Hazardousness: None Poisonous contents: None Environmental effect: None
In case of	Contact with eyes: Clean out eyes with water Contact with skin: Clean affected area with water Inhaling: Clean nose with water and then gargle to dean throat. Ingestion: Gargle with water and then drink
In case of fire	Fire extinguishing procedure: None (Non flammable) Fire extinguishing material: None needed (Non flammable)
In case of leaking	Wipe off or wash affected area with water
Storage	Store in a cool and dark place. Can not be refrigerated.
Physical and Chemical properties	Appearance: Yellowish suspended solution Odor: None True Specific gravity: 1.0 Boiling point: 100°C Volatility: Solubility: None Dissolve in water but not in oil

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In case of emergency contact: Quality control department
Phone: 095-420-7092

Serial number	July 20th, 2002.
Date issued	TPX-85
Product name	
Hazardous information	Combustibility: Incombustibility Flammability: None Explosive: None Stability: Stable Skin corrosiveness: None Irritability: Sub acute toxicity: None Acute toxicity: None Cancer causing: Non cancer causing
Environmental Affect ness	Degradability: None Accumulative: None Fish-toxicity: None
Chemical disposal	Drain into sewage disposal treatment tank or use regular water sewage system.
Transport handling	Leakage of liquid from container may happen.

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Phone:	095-420-7092

Serial number
Date issued July 20th, 2002.
Product name TPX-220

Material specifications	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Chemical name:</td> <td>Mixed solution of peroxotitanic acid and peroxy-modified anatase sol</td> </tr> <tr> <td>Content of the components:</td> <td>220w%</td> </tr> <tr> <td>Components:</td> <td>Titanium dioxide, Peroxotitanic acid</td> </tr> <tr> <td>Titanium dioxide (Existing chemical component):</td> <td>(1)-558</td> </tr> <tr> <td>CAS number:</td> <td>13463-67-7</td> </tr> <tr> <td>Peroxotitanium acid New semi micro chemical substance:</td> <td>5495 (Registered number to Japanese Ministry of Economy Trade and Industry)</td> </tr> </table>	Chemical name:	Mixed solution of peroxotitanic acid and peroxy-modified anatase sol	Content of the components:	220w%	Components:	Titanium dioxide, Peroxotitanic acid	Titanium dioxide (Existing chemical component):	(1)-558	CAS number:	13463-67-7	Peroxotitanium acid New semi micro chemical substance:	5495 (Registered number to Japanese Ministry of Economy Trade and Industry)
Chemical name:	Mixed solution of peroxotitanic acid and peroxy-modified anatase sol												
Content of the components:	220w%												
Components:	Titanium dioxide, Peroxotitanic acid												
Titanium dioxide (Existing chemical component):	(1)-558												
CAS number:	13463-67-7												
Peroxotitanium acid New semi micro chemical substance:	5495 (Registered number to Japanese Ministry of Economy Trade and Industry)												
Hazardous or Poisonous nature	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Classification:</td> <td>Non hazardous (Innocuous material)</td> </tr> <tr> <td>Hazardousness:</td> <td>None</td> </tr> <tr> <td>Poisonous contents:</td> <td>None</td> </tr> <tr> <td>Environmental effect</td> <td>None</td> </tr> </table>	Classification:	Non hazardous (Innocuous material)	Hazardousness:	None	Poisonous contents:	None	Environmental effect	None				
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Hazardousness:	None												
Poisonous contents:	None												
Environmental effect	None												
In case of	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Contact with eyes:</td> <td>Clean out eyes with water</td> </tr> <tr> <td>Contact with skin:</td> <td>Clean affected area with water</td> </tr> <tr> <td>Inhaling:</td> <td>Clean nose with water and then gargle to dean throat.</td> </tr> <tr> <td>Ingestion:</td> <td>Gargle with water and then drink</td> </tr> </table>	Contact with eyes:	Clean out eyes with water	Contact with skin:	Clean affected area with water	Inhaling:	Clean nose with water and then gargle to dean throat.	Ingestion:	Gargle with water and then drink				
Contact with eyes:	Clean out eyes with water												
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Inhaling:	Clean nose with water and then gargle to dean throat.												
Ingestion:	Gargle with water and then drink												
In case of fire	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Fire extinguishing procedure</td> <td>None (Non flammable)</td> </tr> <tr> <td>Fire extinguishing material</td> <td>None needed (Non flammable)</td> </tr> </table>	Fire extinguishing procedure	None (Non flammable)	Fire extinguishing material	None needed (Non flammable)								
Fire extinguishing procedure	None (Non flammable)												
Fire extinguishing material	None needed (Non flammable)												
In case of leaking	Wipe off or wash affected area with water												
Storage	Store in a cool and dark place. Can not be refrigerated.												
Physical and Chemical properties	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Appearance:</td> <td>Yellowish suspended solution</td> </tr> <tr> <td>Odor:</td> <td>None</td> </tr> <tr> <td>True Specific gravity:</td> <td>1.0</td> </tr> <tr> <td>Boiling point:</td> <td>100°C</td> </tr> <tr> <td>Volatility: Solubility:</td> <td>None Dissolve in water but not in oil</td> </tr> </table>	Appearance:	Yellowish suspended solution	Odor:	None	True Specific gravity:	1.0	Boiling point:	100°C	Volatility: Solubility:	None Dissolve in water but not in oil		
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Date issued	TPX-220
Product name	
Hazardous information	Combustibility: Incombustibility Flammability: None Explosive: None Stability: Stable Skin corrosiveness: None Irritability: Sub acute toxicity: None Acute toxicity: None Cancer causing: Non cancer causing
Environmental Affect ness	Degradability: None Accumulative: None Fish-toxicity: None
Chemical disposal	Drain into sewage disposal treatment tank or use regular water sewage system.
Transport handling	Leakage of liquid from container may happen.