

Date of issue : 17 December, 2013

Revision Date : 25 April, 2019

**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE
AND OF THE COMPANY / UNDERTAKING**

PRODUCT NAME : Magenta Toner for Panasonic Multi-Function Printer, Models
KX-MC6015, KX-MC6020, KX-MC6255, KX-MC6260

PRODUCT NUMBER : KX-FATM502E, KX-FATM507E, KX-FATM507X, KX-FADC510E, KX-FADC510X

RECOMMENDED USE : Toner for electrophotographic printing apparatus

MANUFACTURER : Panasonic Corporation
Connected Solutions Company
Business Communication Business Unit
4-1-62 Minoshima, Hakata-ku, Fukuoka City, 812-8531 Japan
Tel : +81-(0)70-1349-4205 Fax : +81-(0)92-477-1686
E-mail : msdsinfo_ut@ml.jp.panasonic.com

CONTACT POINT : Panasonic Testing Center
Panasonic Marketing Europe GmbH
Winsbergring 15, D-22525 Hamburg, Germany
Tel: +49 (0)40 8549- 0

SECTION 2 HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW : Magenta fine powder, slight plastic odor.
Not a highly flammable, but when suspended in air, is
combustible as with most organic powders.

GHS CLASSIFICATION

PHYSICAL AND CHEMICAL HAZARDS : Classification not possible

HEALTH HAZARDS : Classification not possible

HAZARDOUS TO THE AQUATIC ENVIRONMENT : CHRONIC TOXICITY : Category 3

GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS : Not required

SIGNAL WORD : Not required

HAZARD STATEMENTS : H412 Harmful to aquatic life with long lasting effects.

OTHER HAZARDS : None

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS (Common Name)	PROPORTION (% by wt.)	CAS #	EC #	CLP Classification*
♦ Polyester resin	70 - 90	Trade secret	-	None
♦ Magenta pigment	1 - 10	Trade secret	-	None
♦ Wax	1 - 10	Trade secret	-	None
♦ Amorphous silica	1 - 5	68909-20-6	272-697-1	None
♦ Charge control agent-1	1 - 5	Trade secret	-	None
♦ Charge control agent-2	1 - 5	72869-85-3	276-955-4	Acute Tox.4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

* Full texts of Hazard Statements are listed in SECTION 16.

SECTION 4 FIRST AID MEASURES

INHALATION : Remove to fresh air. If effects occur, consult medical personnel.
INGESTION : Rinse mouth. If swallowed, drink 1-2 glasses of water and immediately induce vomiting. Get medical attention.
SKIN CONTACT : Wash after each contact. Get medical attention if symptoms is occur.
EYE CONTACT : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT : No data available.
FLAMMABLE LIMITS : No data available.
EXTINGUISHING MEDIA : Water fog, dry chemical, foam or CO₂.
UNSUITABLE EXTINGUISHING MEDIA : None
HAZARDOUS COMBUSTION PRODUCTS : Carbon monoxide, Carbon dioxide and Smoke.
FIRE-FIGHTING EQUIPMENT : Wear full bunker gear including a positive pressure self-contained breathing apparatus in case of burning in large quantities.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Minimize the release of particulates. Wear personal protective equipment.
Do not use vacuum cleaner.
After by lightly spraying with water to prevent development of dust, spills should be swept up or wiped up. Then residuals can be removed with soap and water. Preferred to use the material in a place, covering up the floor and surrounding matters with suitable sheets such as paper, in a case of being not fit to scrub the floor with water. These used sheets should be wrapped up in spills and transfer into a suitable container for disposal.
Garments may be washed or dry cleaned, after removal of loose toner.

SECTION 7 HANDLING AND STORAGE

HANDLING : Avoid creating dust. Clean up all spills promptly.
Inhalation and contact with skin or eyes should be avoided.
Provide general ventilation. Good general ventilation should be sufficient of most conditions.
STORAGE : Store in a cool, well ventilated place away from flames and spark-producing equipment.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES : ACGIH TLV= 10mg/m³(Total dust), 3mg/m³(Respirable dust)
OSHA PEL= 15mg/m³(Total dust), 5mg/m³(Respirable dust)
ENGINEERING CONTROLS : Good general ventilation is recommended.
RESPIRATORY PROTECTION : Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.
SKIN PROTECTION : No precautions should be needed under normal use.
EYE PROTECTION : No precautions should be needed under normal use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Magenta fine powder
ODOR : Slight plastic odor
PARTICLE SIZE : 5 - 15 µm
pH : Not applicable
SOFTENING POINT : 100 - 150°C
BOILING POINT : No information available
VAPOR PRESSURE : No information available
VAPOR DENSITY : No information available
BULK DENSITY : 0.4
SOLUBILITY IN WATER : Negligible
PARTITION COEFFICIENT (n-octanol/water): No data
AUTO-IGNITION TEMPERATURE : No data
DECOMPOSITION TEMPERATURE : No data
VISCOSITY : No data
EXPLOSIVE PROPERTIES : Can form explosive dust-air mixtures when finely dispersed in air.
OXIDISING PROPERTIES : No data

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY : None
CHEMICAL STABILITY : This is a stable product.
POSSIBILITY OF HAZARDOUS REACTIONS : None
CONDITIONS TO AVOID : None
INCOMPATIBLE MATERIALS : Oxidizing materials
HAZARDOUS DECOMPOSITION PRODUCTS : Carbon oxides, hydrocarbons (by high heat and fire)

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY :
ORAL TOXICITY : LD50 > 2000 mg/kg (Rat) ¹⁾
INHALATION TOXICITY : No Data
SKIN CORROSION/IRRITATION : NON-IRRITANT (Rabbit) ¹⁾
SERIOUS EYE DAMAGE/IRRITATION : No data
SKIN SENSITISATION : NON-SENSITIVE (Guinea Pig) ¹⁾
REPEATED DOSE TOXICITY :

In study in rats (H. Muhle) by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m³) exposure group.

But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposure.

CARCINOGENICITY : No carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA (USA) regulation and EU Directive.
MUTAGENICITY : Negative in the Ames test
REPRODUCTIVE TOXICITY : Not available

1) This information is based on toxicity data for similar materials and ingredients.

SECTION 12 ECOLOGICAL INFORMATION

MOBILITY : No information available
BIOACCUMULATION : No information available
ECOTOXICITY : No information available

SECTION 13 DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD : When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

SECTION 14 TRANSPORT INFORMATION

TRANSPORT INFORMATION : This is not a hazardous product.
UN NUMBER : None allocated
UN SHIPPING NAME : None allocated
UN CLASSIFICATION : None allocated
UN PACKING GROUP : None allocated
IATA : Not regulated
DOT : Not regulated

SECTION 15 REGULATORY INFORMATION

USA INFORMATION :
All chemical substances in this product comply with all applicable rules or orders under TSCA.

AUSTRALIA INFORMATION :
Not classified as hazardous according to criteria of NOHSC.
(EC) No 1907/2006 : AUTHORISATION ON USE : Not regulated
RESTRICTIONS ON USE : Not regulated
(EC) No 1272/2008 : CLASSIFICATION : None
HAZARD CLASS : Aquatic Chronic 3
HAZARD STATEMENT : H412 Harmful to aquatic life with long lasting effects.

SECTION 16 OTHER INFORMATION

HAZARD STATEMENT(RELATED TO SECTION 3):
H302 : Harmful if swallowed.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

REFERENCES :
H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.Mackenzie, P.Morrow, U.Mohr, S.Takenaka and R.Mermelstein (1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation must be examined if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin must be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

Date of issue : 17 December, 2013

Revision Date : 25 April, 2019

**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE
AND OF THE COMPANY / UNDERTAKING**

PRODUCT NAME : Yellow Toner for Panasonic Multi-Function Printer, Models
KX-MC6015, KX-MC6020, KX-MC6255, KX-MC6260

PRODUCT NUMBER : KX-FATY503E, KX-FATY508E, KX-FATY508X, KX-FADC510E, KX-FADC510X

RECOMMENDED USE : Toner for electrophotographic printing apparatus

MANUFACTURER : Panasonic Corporation
Connected Solutions Company
Business Communication Business Unit
4-1-62 Minoshima, Hakata-ku, Fukuoka City, 812-8531 Japan
Tel : +81-(0)70-1349-4205 Fax : +81-(0)92-477-1686
E-mail : msdsinfo_ut@ml.jp.panasonic.com

CONTACT POINT : Panasonic Testing Center
Panasonic Marketing Europe GmbH
Winsbergring 15, D-22525 Hamburg, Germany
Tel: +49 (0)40 8549- 0

SECTION 2 HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW : Yellow fine powder, slight plastic odor.
Not a highly flammable, but when suspended in air, is
combustible as with most organic powders.

GHS CLASSIFICATION

PHYSICAL AND CHEMICAL HAZARDS : Classification not possible
HEALTH HAZARDS : Classification not possible
HAZARDOUS TO THE AQUATIC ENVIRONMENT : CHRONIC TOXICITY : Category 3

GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS : Not required
SIGNAL WORD : Not required
HAZARD STATEMENTS : H412 Harmful to aquatic life with long lasting effects.
OTHER HAZARDS : None

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS (Common Name)	PROPORTION (% by wt.)	CAS #	EC #	CLP Classification*
♦ Polyester resin	70 - 90	Trade secret	-	None
♦ Yellow pigment	1 - 10	Trade secret	-	None
♦ Wax	1 - 10	Trade secret	-	None
♦ Amorphous silica	1 - 5	68909-20-6	272-697-1	None
♦ Charge control agent-1	1 - 5	Trade secret	-	None
♦ Charge control agent-2	1 - 5	72869-85-3	276-955-4	Acute Tox.4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

* Full texts of Hazard Statements are listed in SECTION 16.

SECTION 4 FIRST AID MEASURES

INHALATION : Remove to fresh air. If effects occur, consult medical personnel.
INGESTION : Rinse mouth. If swallowed, drink 1-2 glasses of water and immediately induce vomiting. Get medical attention.
SKIN CONTACT : Wash after each contact. Get medical attention if symptoms is occur.
EYE CONTACT : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT : No data available.
FLAMMABLE LIMITS : No data available.
EXTINGUISHING MEDIA : Water fog, dry chemical, foam or CO₂.
UNSUITABLE EXTINGUISHING MEDIA : None
HAZARDOUS COMBUSTION PRODUCTS : Carbon monoxide, Carbon dioxide and Smoke.
FIRE-FIGHTING EQUIPMENT : Wear full bunker gear including a positive pressure self-contained breathing apparatus in case of burning in large quantities.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Minimize the release of particulates. Wear personal protective equipment.
Do not use vacuum cleaner.
After by lightly spraying with water to prevent development of dust, spills should be swept up or wiped up. Then residuals can be removed with soap and water. Preferred to use the material in a place, covering up the floor and surrounding matters with suitable sheets such as paper, in a case of being not fit to scrub the floor with water. These used sheets should be wrapped up in spills and transfer into a suitable container for disposal.
Garments may be washed or dry cleaned, after removal of loose toner.

SECTION 7 HANDLING AND STORAGE

HANDLING : Avoid creating dust. Clean up all spills promptly.
Inhalation and contact with skin or eyes should be avoided.
Provide general ventilation. Good general ventilation should be sufficient of most conditions.
STORAGE : Store in a cool, well ventilated place away from flames and spark-producing equipment.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES : ACGIH TLV= 10mg/m³(Total dust), 3mg/m³(Respirable dust)
OSHA PEL= 15mg/m³(Total dust), 5mg/m³(Respirable dust)
ENGINEERING CONTROLS : Good general ventilation is recommended.
RESPIRATORY PROTECTION : Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.
SKIN PROTECTION : No precautions should be needed under normal use.
EYE PROTECTION : No precautions should be needed under normal use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Yellow fine powder
ODOR : Slight plastic odor
PARTICLE SIZE : 5 - 15 µm
pH : Not applicable
SOFTENING POINT : 100 - 150°C
BOILING POINT : No information available
VAPOR PRESSURE : No information available
VAPOR DENSITY : No information available
BULK DENSITY : 0.4
SOLUBILITY IN WATER : Negligible
PARTITION COEFFICIENT (n-octanol/water): No data
AUTO-IGNITION TEMPERATURE : No data
DECOMPOSITION TEMPERATURE : No data
VISCOSITY : No data
EXPLOSIVE PROPERTIES : Can form explosive dust-air mixtures when finely dispersed in air.
OXIDISING PROPERTIES : No data

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY : None
CHEMICAL STABILITY : This is a stable product.
POSSIBILITY OF HAZARDOUS REACTIONS : None
CONDITIONS TO AVOID : None
INCOMPATIBLE MATERIALS : Oxidizing materials
HAZARDOUS DECOMPOSITION PRODUCTS : Carbon oxides, hydrocarbons(by high heat and fire)

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY :
ORAL TOXICITY : LD50 > 2000 mg/kg(Rat) ¹⁾
INHALATION TOXICITY : No Data
SKIN CORROSION/IRRITATION : NON-IRRITANT(Rabbit) ¹⁾
SERIOUS EYE DAMAGE/IRRITATION : No data
SKIN SENSITISATION : NON-SENSITIVE(Guinea Pig) ¹⁾
REPEATED DOSE TOXICITY :
In study in rats (H. Muhle) by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m³) exposure group.
But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposure.

CARCINOGENICITY : No carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA (USA) regulation and EU Directive.
MUTAGENICITY : Negative in the Ames test
REPRODUCTIVE TOXICITY : Not available

1) This information is based on toxicity data for similar materials and ingredients.

SECTION 12 ECOLOGICAL INFORMATION

MOBILITY : No information available
BIOACCUMULATION : No information available
ECOTOXICITY : No information available

SECTION 13 DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD : When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

SECTION 14 TRANSPORT INFORMATION

TRANSPORT INFORMATION : This is not a hazardous product.
UN NUMBER : None allocated
UN SHIPPING NAME : None allocated
UN CLASSIFICATION : None allocated
UN PACKING GROUP : None allocated
IATA : Not regulated
DOT : Not regulated

SECTION 15 REGULATORY INFORMATION

USA INFORMATION :
All chemical substances in this product comply with all applicable rules or orders under TSCA.

AUSTRALIA INFORMATION :
Not classified as hazardous according to criteria of NOHSC.
(EC) No 1907/2006 : AUTHORISATION ON USE : Not regulated
RESTRICTIONS ON USE : Not regulated
(EC) No 1272/2008 : CLASSIFICATION : None
HAZARD CLASS : Aquatic Chronic 3
HAZARD STATEMENT : H412 Harmful to aquatic life with long lasting effects.

SECTION 16 OTHER INFORMATION

HAZARD STATEMENT(RELATED TO SECTION 3):
H302 : Harmful if swallowed.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

REFERENCES :
H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.Mackenzie, P.Morrow, U.Mohr, S.Takenaka and R.Mermelstein (1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

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Date of issue : 17 December, 2013

Revision Date : 25 April, 2019

**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE
AND OF THE COMPANY / UNDERTAKING**

PRODUCT NAME : Cyan Toner for Panasonic Multi-Function Printer, Models
KX-MC6015, KX-MC6020, KX-MC6255, KX-MC6260

PRODUCT NUMBER : KX-FATC501E, KX-FATC506E, KX-FATC506X, KX-FADC510E, KX-FADC510X

RECOMMENDED USE : Toner for electrophotographic printing apparatus

MANUFACTURER : Panasonic Corporation
Connected Solutions Company
Business Communication Business Unit
4-1-62 Minoshima, Hakata-ku, Fukuoka City, 812-8531 Japan
Tel : +81-(0)70-1349-4205 Fax : +81-(0)92-477-1686
E-mail : msdsinfo_ut@ml.jp.panasonic.com

CONTACT POINT : Panasonic Testing Center
Panasonic Marketing Europe GmbH
Winsbergring 15, D-22525 Hamburg, Germany
Tel: +49 (0)40 8549- 0

SECTION 2 HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW : Blue fine powder, slight plastic odor.
Not a highly flammable, but when suspended in air, is
combustible as with most organic powders.

GHS CLASSIFICATION

PHYSICAL AND CHEMICAL HAZARDS : Classification not possible

HEALTH HAZARDS : Classification not possible

HAZARDOUS TO THE AQUATIC ENVIRONMENT : CHRONIC TOXICITY : Category 3

GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS : Not required

SIGNAL WORD : Not required

HAZARD STATEMENTS : H412 Harmful to aquatic life with long lasting effects.

OTHER HAZARDS : None

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS (Common Name)	PROPORTION (% by wt.)	CAS #	EC #	CLP Classification*
♦ Polyester resin	70 - 90	Trade secret	-	None
♦ Blue pigment	1 - 10	Trade secret	-	None
♦ Wax	1 - 10	Trade secret	-	None
♦ Amorphous silica	1 - 5	68909-20-6	272-697-1	None
♦ Charge control agent-1	1 - 5	Trade secret	-	None
♦ Charge control agent-2	1 - 5	72869-85-3	276-955-4	Acute Tox.4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

* Full texts of Hazard Statements are listed in SECTION 16.

SECTION 4 FIRST AID MEASURES

INHALATION : Remove to fresh air. If effects occur, consult medical personnel.
INGESTION : Rinse mouth. If swallowed, drink 1-2 glasses of water and immediately induce vomiting. Get medical attention.
SKIN CONTACT : Wash after each contact. Get medical attention if symptoms is occur.
EYE CONTACT : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT : No data available.
FLAMMABLE LIMITS : No data available.
EXTINGUISHING MEDIA : Water fog, dry chemical, foam or CO₂.
UNSUITABLE EXTINGUISHING MEDIA : None
HAZARDOUS COMBUSTION PRODUCTS : Carbon monoxide, Carbon dioxide and Smoke.
FIRE-FIGHTING EQUIPMENT : Wear full bunker gear including a positive pressure self-contained breathing apparatus in case of burning in large quantities.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Minimize the release of particulates. Wear personal protective equipment.
Do not use vacuum cleaner.
After by lightly spraying with water to prevent development of dust, spills should be swept up or wiped up. Then residuals can be removed with soap and water. Preferred to use the material in a place, covering up the floor and surrounding matters with suitable sheets such as paper, in a case of being not fit to scrub the floor with water. These used sheets should be wrapped up in spills and transfer into a suitable container for disposal.
Garments may be washed or dry cleaned, after removal of loose toner.

SECTION 7 HANDLING AND STORAGE

HANDLING : Avoid creating dust. Clean up all spills promptly.
Inhalation and contact with skin or eyes should be avoided.
Provide general ventilation. Good general ventilation should be sufficient of most conditions.
STORAGE : Store in a cool, well ventilated place away from flames and spark-producing equipment.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES : ACGIH TLV= 10mg/m³(Total dust), 3mg/m³(Respirable dust)
OSHA PEL= 15mg/m³(Total dust), 5mg/m³(Respirable dust)
ENGINEERING CONTROLS : Good general ventilation is recommended.
RESPIRATORY PROTECTION : Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.
SKIN PROTECTION : No precautions should be needed under normal use.
EYE PROTECTION : No precautions should be needed under normal use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Blue fine powder
ODOR : Slight plastic odor
PARTICLE SIZE : 5 - 15 µm
pH : Not applicable
SOFTENING POINT : 100 - 150°C
BOILING POINT : No information available
VAPOR PRESSURE : No information available
VAPOR DENSITY : No information available
BULK DENSITY : 0.4
SOLUBILITY IN WATER : Negligible
PARTITION COEFFICIENT (n-octanol/water): No data
AUTO-IGNITION TEMPERATURE : No data
DECOMPOSITION TEMPERATURE : No data
VISCOSITY : No data
EXPLOSIVE PROPERTIES : Can form explosive dust-air mixtures when finely dispersed in air.
OXIDISING PROPERTIES : No data

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY : None
CHEMICAL STABILITY : This is a stable product.
POSSIBILITY OF HAZARDOUS REACTIONS : None
CONDITIONS TO AVOID : None
INCOMPATIBLE MATERIALS : Oxidizing materials
HAZARDOUS DECOMPOSITION PRODUCTS : Carbon oxides, hydrocarbons(by high heat and fire)

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY :
ORAL TOXICITY : LD50 > 2000 mg/kg(Rat) ¹⁾
INHALATION TOXICITY : No Data
SKIN CORROSION/IRRITATION : NON-IRRITANT(Rabbit) ¹⁾
SERIOUS EYE DAMAGE/IRRITATION : No data
SKIN SENSITISATION : NON-SENSITIVE(Guinea Pig) ¹⁾
REPEATED DOSE TOXICITY :
In study in rats (H. Muhle) by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m³) exposure group.
But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposure.
CARCINOGENICITY : No carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA (USA) regulation and EU Directive.
MUTAGENICITY : Negative in the Ames test
REPRODUCTIVE TOXICITY : Not available
1) This information is based on toxicity data for similar materials and ingredients.

SECTION 12 ECOLOGICAL INFORMATION

MOBILITY : No information available
BIOACCUMULATION : No information available
ECOTOXICITY : No information available

SECTION 13 DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD : When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

SECTION 14 TRANSPORT INFORMATION

TRANSPORT INFORMATION : This is not a hazardous product.
UN NUMBER : None allocated
UN SHIPPING NAME : None allocated
UN CLASSIFICATION : None allocated
UN PACKING GROUP : None allocated
IATA : Not regulated
DOT : Not regulated

SECTION 15 REGULATORY INFORMATION

USA INFORMATION :

All chemical substances in this product comply with all applicable rules or orders under TSCA.

AUSTRALIA INFORMATION :

Not classified as hazardous according to criteria of NOHSC.

(EC) No 1907/2006 : AUTHORISATION ON USE : Not regulated

RESTRICTIONS ON USE : Not regulated

(EC) No 1272/2008 : CLASSIFICATION : None

HAZARD CLASS : Aquatic Chronic 3

HAZARD STATEMENT : H412 Harmful to aquatic life with long lasting effects.

SECTION 16 OTHER INFORMATION

HAZARD STATEMENT(RELATED TO SECTION 3):

H302 : Harmful if swallowed.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

REFERENCES :

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.Mackenzie, P.Morrow, U.Mohr, S.Takenaka and R.Mermelstein (1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

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