

Material Safety Data Sheet

Toner Type: ODK-8 / ODY-8 / ODC-8 / ODM-9

For Models : C3300 / 3400 / 3450

C5600 / 5700 / 5800/ 5900 C5650 / 5750 / 5850 / 5950

C8600 / 8800

C3520 MFP / C3530 MFP

C5550 MFP

ES2232a4 / ES2632a4

Oki Data Corporation

Oki Data Corporation

SAFETY DATA SHEET

Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC

TUFTONE ODK-8

Identification of the substance/preparation and of the company/undertaking

Product name

: TUFTONE ODK-8

Code

: 264273

/ 2.017 V TON

Chemical product name

: Proprietary mixture.

Manufacturer

: Oki Data Corporation

4-11-22, Shibaura, Minato-ku, TOKYO, 108-8551 JAPAN Tel. +81-3-5445-6106. Fax +81-3-5445-6177

Supplier

Oki (Europe) Ltd.
 Oki Way, Wardpark , Cumbernauld G68 0FQ, SCOTLAND, UK Tel. +44(0) 1236 502502

Emergency telephone number : Tel. +44(0) 1236 502502

: For electrophotographic printing systems

2. Composition/information on ingredients

Substance/preparation

; Preparation

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients, in accordance with EU or national regulations.

3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Not classified.

Classification : Not classified.
See section 11 for more detailed information on health effects and symptoms.

First aid measures

First aid measures

Inhalation

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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TUFTONE ODK-8.

Ingestion

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or wais/thank.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.
: None known.

Not suitable

: No specific hazard.

Special exposure hazards

Not available.

Hazardous thermal decomposition products

: These products are carbon oxides (CO, CO₂), halogenated compounds, hydrogen chloride. Some metallic oxides.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing appearatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions

 Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

Environmental precautions and clean-up methods : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling

; Wash thoroughly after handling.

Storage

: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

Recommended

± Use original container.

Germany - Storage code

: Not available.

8. Exposure controls/personal protection

Recommended monitoring : procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

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Exposure controls

TUFTONE ODK-8 Occupational exposure Respiratory protection Hand protection Eye protection

Skin protection

No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Use a properly fitted, particulate fitter respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

Recommended: Approved/certifled disposable particulate dust mask,

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

at all times when handling chemical products if a risk assessment indicates this is necessary.

28 hourthours (breakthrough time); butyl rubber:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Recommended: splash goggles , safety glasses with side-shields

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling

this product.

Body: Recommended: lab coat , overall

The penetration-time of the recommended gloves depend not only on the material. Also other factors may have influence on the penetration-time, as the thickness of them or the specific use or conditions (temperature). In any case, certificate materials (for example following EN 374) should be selected. Please ask your supplier, if the gloves are suitable for

the intended use

9. Physical and chemical properties

Appearance

Remark

(20°C) : Solid. (Powder.) Physical state

: Black Color · Odorless Odor : Not available Odor threshold

: Not applicable. pH : Not available. **Boiling point** : Not available. Melting point Dropping Point : Not available.

: The lowest known value is Closed cup: 198.85°C (389.9°F). (paraffin) Flash point

: Explosive in the presence of the following materials or conditions: open flames, sparks and static **Explosive properties**

discharge.

: Insoluble in cold water, hot water Solubility

10. Stability and reactivity

Stability . The product is stable.

: These products are halogenated compounds, hydrogen chloride. Hazardous decomposition products

Other information

11. Toxicological information

Potential acute health effects

No known significant effects or critical hazards. Inhalation

No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Eye contact

Acute toxicity

Date of issue

Species Test Result Route ingredient name Page: 3/5 2.017 20/06/2006

TUFTONE COK-8 >2000 mg/kg Proprietary mixture. Carbon black LD50 >15400 mg/kg Oral Additional information Potential chronic health effects Impairs fertility Carcinogenic effects Mutagenic effects Developmental toxicity Ingredient name

: No known significant effects or critical hazards. Carcinogenicity Mutagenicity ; No known significant effects or critical hazards. : No known significant effects or critical hazards. Reproductive toxicity : May cause mechanical irritation (CARNAUBA WAX) Other information

Over-exposure signs/symptoms

Inhalation : No known significant effects or critical hazards. : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Skin

; Contains material which causes damage to the following organs: upper respiratory tract, skin, Target organs

12. Ecological information

Other ecological information

: No known significant effects or critical hazards. Other adverse effects

13. Disposal considerations

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional. Methods of disposal

local authority requirements.

European waste catalogue (EWC)

Hazardous waste

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Remark

: In case a EWC-No. is assigned this depends on the intended use of the product. Please choose together with your waste disposer the correct EWC-No.

14. Transport information

International transport regulations Packing Label Additional information Proper shipping Regulatory UN group Not regulated ADR/RID ADR/RID Classification Code ADNR Class Not. regulated. IMDG Class Not regulated. IATA Class regulated.

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TUFTONE ODK-8

15. Regulatory information

Hazard symbol/symbols

Risk phrases

: This product is not classified according to EU legislation.

Safety phrases

: Not applicable.

Contains

Product use

: Classification and labeling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.

- Industrial applications.

Other EU regulations

Additional warning

: Safety Data Sheet available for professional user on request.

EU statistical classification (Tariff

Germany

Employment restrictions : Not available in accordance with section 15b of the Hazardous Substance

Ordinance

: Not available.

Hazardous incident

Hazard class for water : 2

16. Other information

Indicates information that has changed from previously issued version.

History

Product code

: 264273

Date of printing Date of Issue

: 20/06/2006 : 20/06/2006

Date of previous issue

: No previous validation

Version

: 2.017

Form

: KCE SDS VER 3.3.1

Validated by mgalobardes on 20/06/2006.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Oki Data Corporation

SAFETY DATA SHEET

Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC

TUFTONE ODY-8

Identification of the substance/preparation and of the company/undertaking

: TUFTONE ODY-8

Code

: 264275

/ 2.026 V TON

Chemical product name

: Proprietary mixture.

Manufacturer

Oki Data Corporation
 4-11-22, Shibaura, Minato-ku, TOKYO, 108-8551 JAPAN
 Tel. +81-3-5445-8106. Fax +81-3-5445-8177

Supplier

: Oki (Europe) Ltd. 1 Oki Way, Wardpark , Cumbernauld G68 0FQ, SCOTLAND, UK Tel. +44(0) 1236 502502

Emergency telephone number ; Tel. +44(0) 1236 502502

: For electrophotographic printing systems

2. Composition/information on ingredients

Substance/preparation

: Preparation

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients, in accordance with EU or national regulations.

3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

: Not classified. See section 11 for more detailed information on health effects and symptoms.

First aid measures

First aid measures

Inhalation

: Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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THETONE ODY-8

Ingestion

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swellowed and the exposed person is Keep person warm and at rest. If material has been swartowed and the exposed person feels sick as conscious, give small quantities of water to drink, Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnet. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mount to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

See section 11 for more detailed information on health effects and symptoms.

Fire-fighting measures

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable Special exposure hazards

: None known. : No specific hazard.

Hazardous thermal decomposition products Not available. These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.),

Special protective equipment for fire-fighters

halogenated compounds, hydrogen chloride. Some metallic oxid : Fire-fighters should wear appropriate protective equipment and self-contained

breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions

: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment

Environmental precautions and clean-up methods

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

Handling and storage

Handling

Wash thoroughly after handling.

Storage

: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

Recommended

Use original container.

Germany - Storage code

· Not avaliable.

Exposure controls/personal protection

procedures

Recommended monitoring : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls

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TUFTONE ODY-8

Occupational exposure

No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust vertilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Respiratory protection

: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. 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

Recommended: Approved/certified disposable particulate dust mask.

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

Eye protection

as all times when nandling chemical products it a risk assessment indicates this is necessary.

8 hourhours (breakthrough fime): bulyl rubber

5 Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or these.

dusts.

Skin protection

Recommended: splash goggles , safety glasses with side-shields : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling

this product. Body: Recommended: lab coat , overall

Remark

2. The penetration-time of the recommended gloves depend not only on the material. Also other factors may have influence on the penetration-time, as the thickness of them or the specific use or conditions (temperature). In any case, certificate materials (for example following EN 374) should be selected. Please ask your supplier, if the gloves are suitable for the intended use

9. Physical and chemical properties

Appearance

Odor threshold

Physical state (20°C) : Solid. (Powder.) : Yellow. Color : Odorless

: Not applicable pН Not available. **Boiling point** : Not available. Melting point

; Not available. **Dropping Point**

: The lowest known value is Closed cup: 198.85°C (389.9°F). (paraffin) Flash point : Explosive in the presence of the following materials or conditions: open flames, sparks and static

Explosive properties

: Insoluble in cold water, hot water.

Solubility Dispersibility properties

: Not dispersible in cold water, hot water

10. Stability and reactivity

Hazardous decomposition

: The product is stable.

: Not available

: These products are halogenated compounds, hydrogen chloride.

Other information

11. Toxicological information

Potential acute health effects

Inhalation

: No known significant effects or critical hazards. No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Eye contact

Acute toxicity

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TUFTONE ODY-8 Result Route Species Test Ingredient name Rat LD50 >2000 mg/kg Oral Proprietary mixture. Additional information Potential chronic health effects Impairs fertility Carcinogenic effects **Mutagenic effects** Developmental Ingredient name : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity Reproductive toxicity ; No known significant effects or critical hazards. : May cause mechanical irritation (CARNAUBA WAX) Other information Over-exposure signs/symptoms : No known significant effects or critical hazards Inhalation : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Contains material which causes damage to the following organs: upper respiratory tract, skin, eye, lens or comea. Skin Target organs 12. Ecological information Other ecological information : No known significant effects or critical hazards. Other adverse effects 13. Disposal considerations The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal fegislation and any regional local authority requirements. Methods of disposal

14. Transport information

European waste catalogue

Hazardous waste

(EWC)

Remark

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
ADR/RID Class	Not regulated.					ADR/RID Classification Code
ADNR Class	Not regulated.	-	1	-		-
IMDG Class	Not regulated	-	-	-		
IATA Class	Not regulated.	-	-	-		-

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/889/EEC.

In case a EWC-No. is assigned this depends on the intended use of the product. Please choose together with your waste disposer the correct EWC-No.

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TUFTONE ODY-8 15. Regulatory information EU regulations Hazard symbol/symbols

Risk phrases

: This product is not classified according to EU legislation.

Safety phrases

: Not applicable.

Contains

Product use

: Classification and labeling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.

- Industrial applications.

Other EU regulations

Additional warning

: Safety Data Sheet available for professional user on request.

Germany

Employment restrictions : Not available. in accordance with section 15b of the Hazardous Substance

Ordinance

: Not available.

Hazardous incident ordinance

Hazard class for water

16. Other information

Indicates information that has changed from previously issued version.

History

Product code

: 264275

Date of printing

27/06/2006

Date of issue

: 27/06/2006

Date of previous issue

: No previous validation

Version

2.026

Form

: KCE SDS VER 3.3.1

Validated by mgalobardes on 27/06/2006.

Notice to reader

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Oki Data Corporation

SAFETY DATA SHEET

Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC

TUFTONE ODC-8

Identification of the substance/preparation and of the company/undertaking

Product name

TUFTONE ODC-8

Code

: 264272

/ 2.017 V TON

Chemical product name

: Proprietary mixture.

Manufacturer

Oki Data Corporation
 4-11-22, Shibaura, Minato-ku, TOKYO, 108-8551 JAPAN
 Tel. +81-3-5445-6106. Fax +81-3-5445-6177

Supplier

Oki (Europe) Ltd.
 Oki Way, Wardpark , Cumbernauld G68 0FQ, SCOTLAND, UK Tel. +44(0) 1236 502502

Emergency telephone number : Tel. +44(0) 1236 502502

: For electrophotographic printing systems

2. Composition/information on ingredients

Substance/preparation

: Preparation

Hazardous ingredients:

Chemical name*	96	EC number	Classification
copper, 29h,31h-phthalocyaninato(2-)-n29,n30,n31,n32}-, (sp-4-1)- See section 16 for the full text of the R-phrases declared above	2.5 - 5	205-685-1	Not classified.

Following European Directives and National Regulations, only the dangerous ingredients are disclosed in the above table. Occupational exposure limits, if available, are listed in section 8.

3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

: Not classified.

Classification : Not classified.

See section 11 for more detailed information on health effects and symptoms.

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First aid measures

First aid measures

Inhalation

: Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if move exposed person to treah air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or weistband.

Ingestion

clothing such as a collar, tie, belt or waistband.

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air, Keep person warm and at rest. If material has been swaftowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or weisthand.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash ciothing before reuse. Clean shoes thoroughly before reuse.

Eye contact

: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable Special exposure hazards : None known. : No specific hazard.

Hazardous thermal

Not available. These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.),

decomposition products Special protective equipment for fire-fighters

halogenated compounds, hydrogen chloride. Some metallic oxides. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Accidental release measures

Personal precautions

: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment

Environmental precautions and clean-up methods

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling

: Wash thoroughly after handling.

Storage

: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

Recommended Germany - Storage code : Use original container.

: Not available.

Exposure controls/personal protection

Exposure limit values

Ingredient name

copper, [29h,31h-phthalocyaninato(2-) -n29,n30,n31,n32]-, (sp-4-1)-

Occupational exposure limits

TRGS900 MAK (Germany, 8/2004). Spitzenbegrenzung: 4 mg/m² 15 minute/minutes. Form: Inhalable fraction TWA: 1 mg/m³ 8 hour/hours. Form: Inhalable fraction

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances. substances

Exposure controls

Occupational exposure

No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. 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

Recommended: Approved/certified disposable particulate dust mask

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eve protection

>8 hour/hours (breakthrough time): butyl rubber
Safety eyewear complying with an approved standard should be used when a risk
assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or

Skin protection

custs.

Recommended: splash goggles, safety glasses with side-shields

Personal protective equipment for the body should be selected based on the task being
performed and the risks involved and should be approved by a specialist before handling this product.

Body: Recommended: lab coat , overall

Remark

The penetration-time of the recommended gloves depend not only on the material. Also other factors may have influence on the penetration-time, as the thickness of them or the specific use or conditions (temperature). In any case, certificate materials (for example following EN 374) should be selected. Please ask your supplier, if the gloves are suitable for the intended use

9. Physical and chemical properties

Physical state (20°C) : Solid. (Powder.)

Color : Blue. · Odorless Odor Odor threshold : Not available

рΗ

Boiling point Melting point

: Not applicable ; Not available. : Not available

Dropping Point Flash point

: Not available. : The lowest known value is Closed cup: 198.85°C (389.9°F). (paraffin)

Explosive properties

: Explosive in the presence of the following materials or conditions: open flames, sparks and static

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discharge.

Solubility Dispersibility properties : Insoluble in cold water, hot water.

: Not dispersible in cold water, hot water.

Version

: 20/90/2006 Date of issue

TUFTONE ODC-8

10. Stability and reactivity

: The product is stable.

Hazardous decomposition

: These products are halogenated compounds, hydrogen chloride.

products

Other information

11. Toxicological information

Potential acute health effects

Inhalation

No known significant effects or critical hazards.

Ingestion

: No known significant effects or critical hazards.

Skin contact Eye contact

: No known significant effects or critical hazards. No known significant effects or critical hazards.

Acute toxicity

Ingredient name Proprietary mixture. Test LD50

Result >2000 mg/kg Route

Species Rat

Additional information

Potential chronic health effects

Ingredient name

Carcinogenicity

Mutagenic effects

Developmental toxicity

Impairs fertility

Carcinogenic offects

: No known significant effects or critical hazards.

Mutagenicity Reproductive toxicity

: No known significant effects or critical hazards. ; No known significant effects or critical hazards.

: May cause mechanical irritation (CARNAUBA WAX)

Over-exposure signs/symptoms

Inhalation

Other information

: No known significant effects or critical hazards.

Ingestion

: No known significant effects or critical hazards.

Skin

: No known significant effects or critical hazards.

Target organs

: Contains material which causes damage to the following organs: upper respiratory tract, skin, eye, lens or cornea.

12. Ecological information

Other ecological information

Other adverse effects

: No known significant effects or critical hazards

13. Disposal considerations

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Avoid The generation of waste should be avoided or minimized wherever positive, dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

European waste catalogue (EWC)

Hazardous waste

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Remark

In case a EWC-No. is assigned this depends on the intended use of the product. Please choose together with your waste disposer the correct EWC-No.

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14. Transport information

Internationa	I transport r	egulations
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Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
ADR/RID Class	Not regulated.	-				ADR/RID Classification Code
ADNR Class	Not regulated.	-	-	-		
IMDG Class	Not regulated.	*		-		
IATA Class	Not regulated.	+	-	-		

15. Regulatory information

EU regulations

Hazard symbol/symbols :

Risk phrases

: This product is not classified according to EU legislation. : Not applicable.

Safety phrases Contains

Product use

: Classification and labeling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.

- Industrial applications.

Other EU regulations

Additional warning phrases

EU statistical classification (Tariff Code)

: Safety Data Sheet available for professional user on request.

Germany

Employment restrictions : Not available, in accordance with section 15b of the Hazardous Substance

Hazardous incident ordinance

: Not available.

Hazard class for water

16. Other information

Indicates information that has changed from previously issued version.

History

Product code

: 264272

Date of printing

20/06/2006 : 20/06/2006

Date of issue Date of previous issue

: No previous validation

Version

2.017

Date of issue

29/06/2006

Version

: 2.017

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: KCE SDS VER 3.3.1

Form

Validated by mgalobardes on 20/06/2006.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Oki Data Corporation

SAFETY DATA SHEET

Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC

TUFTONE ODM-9

Identification of the substance/preparation and of the company/undertaking

Product name

: TUFTONE ODM-9

Code

: KJ10557101

Chemical product name

: Proprietary mixture.

Manufacturer

Oki Data Corporation
 4-11-22, Shibaura, Minato-ku, TOKYO, 108-8551 JAPAN
 Tel. +81-3-5445-6106. Fax +81-3-5445-6177

/ 1.01

Supplier

Oki (Europe) Ltd.
 1 Oki Way, Wardpark , Cumbernauld G68 0FQ, SCOTLAND, UK Tel. +44(0) 1236 502502

Emergency telephone number : Tel. +44(0) 1236 502502

: Not available.

2. Composition/information on ingredients

Substance/preparation

: Preparation

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients, in accordance with EU or national regulations.

3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Not classified.

Classification ; Not classified. See section 11 for more detailed information on health effects and symptoms.

First aid measures

First aid measures

Inhalation

: Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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TUFTONE ODM-9

Ingestion

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If voenting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or weight had a such as a collar, tie, belt or

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact

: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

See section 11 for more detailed information on health effects and symptoms.

Fire-fighting measures

Extinguishing media

Suitable Not suitable : Use an extinguishing agent suitable for the surrounding fire. : None known.

Special exposure hazards

No specific hazard.

Not available.

Hazardous thermal

Special protective equipment for fire-fighters

decomposition products

 These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.), sulfur oxides (SO₂, SO₃ etc.), halogenated compounds, hydrogen chloride. Some metallic Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions

: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

Environmental precautions and clean-up methods

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling

Wash thoroughly after handling.

Storage

: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

Recommended

: Use original container

Germany - Storage code

: Not available.

Exposure controls/personal protection

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances. substances.

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Exposure controls

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Occupational exposure controls

: No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Respiratory protection

: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. 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

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

Eye protection

recessory.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or

dusts.

Skin protection

Recommended: spiash goggies, safety glasses with side-shields:
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling

this product. Body: Recommended: overall , lab cost

Remark

: The penetration-time of the recommended gloves depend not only on the material. Also other factors may have influence on the penetration-time, as the thickness of them or the specific use or conditions (temperature). In any case, certificate materials (for example following EN 374) should be selected. Please ask your supplier, if the gloves are suitable for the intended use.

Physical and chemical properties

Appearance

(20°C) : Solid. (Powder.) Physical state : Red.

Color Odor

: Odorless. : Not available

Odor threshold

Boiling point

: Not applicable. Not available. : Not available : Not available

Melting point **Dropping Point**

: The lowest known value is Closed cup: 198.85°C (389.9°F). (paraffin)

Flash point Explosive properties

: Explosive in the presence of the following materials or conditions: open flames, sparks and static

discharge. : 1.2 g/cm3 (20 °C)

Density Solubility

: Insoluble in cold water, hot water. : Not dispersible in cold water, hot water.

Dispersibility properties

10. Stability and reactivity

Stability

: The product is stable.

Materials to avoid

: Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

: These products are halogenated compounds, hydrogen chloride.

products

Other Information

11. Toxicological information

Potential acute health effects

Inhalation

: No known significant effects or critical hazards.

Ingestion Skin contact : No known significant effects or critical hazards. : No known significant offects or critical hazards.

: No known significant effects or critical hazards.

OFCD 404

Eye contact Date of issue

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TUFTONE ODM-9 Acute toxicity Result >2000 mg/kg Route Oral Species Ingredient name Proprietary mixture. Additional information Potential chronic health effects Developmental toxicity Impairs fertility Mutagenic effects Carcinogenic effects Ingredient name : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. Reproductive toxicity : May cause mechanical irritation (CARNAUBA WAX) Other information Over-exposure signs/symptoms . No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Ingestion ; No known significant effects or critical hazards. Skin Contains material which causes damage to the following organs: upper respiratory tract, skin, eye, lens or comea. Target organs 12. Ecological information Other ecological information ; No known significant effects or critical hazards. Other adverse effects

13. Disposal considerations

to. Disposal solis	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional
	local authority requirements.
European waste catalogue (EWC)	
Hazardous waste	 Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
Remark	: In case a EWC-No. is assigned this depends on the Intended use of the product. Please

14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
ADR/RID Class	Not regulated.		7			ADR/RID Classification Code
ADNR Class	Not regulated.	-	-	+		
IMDG Class	Not regulated.	+	1	-		

TUFTONE	ODM-9				
IATA Class	Not regulated.	*:	*		

15. Regulatory information

EU regulations

Hazard symbol/symbols

Risk phrases

Safety phrases

: This product is not classified according to EU legislation. : Not applicable.

Contains

Product use

Classification and labeling have been performed according to EU Directives 67/548/EEC and ents) and the intended use.

1999/45/EC (including am - Industrial applications

Other EU regulations

Additional warning

: Safety Data Sheet available for professional user on request.

Germany

Employment restrictions : Not available.

in accordance with section 15b of the Hazardous Substance

Hazardous incident

: Not available.

Hazard class for water

16. Other information

Indicates information that has changed from previously issued version.

History

: KJ10557101 Product code Date of printing : 31/08/2006 : 31/08/2006 Date of issue

: No previous validation Date of previous issue

: 1.01 Version

: KCE SDS VER 3.3.1 Form

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31/08/2006.

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