

SAFETY DATA SHEET

Revision: 1.0 Date: 16.07.2013

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),
1272/2008 (CLP) & 453/2010



Black Toner for OKI 3000/5000/7000/9000 (442A)

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
Product Name Black Toner for OKI 3000/5000/7000/9000 (442A)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Identified Use(s) This mixture is a toner used in printers and copiers.
Uses Advised Against None known.
- 1.3 Details of the supplier of the safety data sheet**
Importer (Europe)
Delacamp A.G.
Bargkoppelweg 64
D-22145 Hamburg
Germany

Telephone +49 (0)40 32 58 28-0
Fax +49 (0)40 32 58 28-210
E-Mail (competent person) info@delacamp.com
- 1.4 Emergency telephone number** +49 (0)40 32 58 28-0
09.00-17.00 (GMT+1)
Languages spoken: German, English, French, Italian

2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1.1 Regulation (EC) No. 1272/2008 (CLP)** Not classified as hazardous for supply/use.
- 2.1.2 Directive 67/548/EEC & Directive 1999/45/EC** Not classified as dangerous for supply/use.
- 2.2 Label elements**
According to Regulation (EC) No. 1272/2008 (CLP)
Product Name Black Toner for OKI 3000/5000/7000/9000 (442A)

Hazard Pictogram(s) None assigned

Signal Word(s) None assigned

Hazard Statement(s) None assigned

Precautionary Statement(s) P261: Avoid breathing dust.
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
P273: Avoid release to the environment.
- 2.3 Other hazards** Finely dispersed particles form explosive mixtures with air.

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3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Substances in preparations / mixtures

3.2 Mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard Statement(s)
Charge stabilizer bis(3,5-di-tert-butylsalicylato-O1,O2)zinc	<2	42405-40-3	403-360-0	Flam. Sol. 1; H228 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Saturated Copolyester Resin	85 – 90	119681-36-6	None assigned	Not classified
Carbon Black	3 – 10	1333-86-4	215-609-9	Not classified (See Also Section 11)
Wax	1 – 10	8016-86-9	None assigned	Not classified
Amorphous Silica	<5	67762-90-7	None assigned	Not classified

Directive 67/548/EEC & Directive 1999/45/EC

Chemical identity of the substance	%W/W	CAS No.	EC No.	EC Classification and Risk Phrases
Charge stabilizer bis(3,5-di-tert-butylsalicylato-O1,O2)zinc	<2	42405-40-3	403-360-0	F; R11: Highly flammable. Xn; R22: Harmful if swallowed. N; R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Saturated Copolyester Resin	85 – 90	119681-36-6	None assigned	Not classified
Carbon Black	3 – 10	1333-86-4	215-609-9	Not classified (See Also Section 11)
Wax	1 – 10	8016-86-9	None assigned	Not classified
Amorphous Silica	<5	67762-90-7	None assigned	Not classified

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If signs/symptoms continue, get medical attention.

Skin Contact

Wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Take off contaminated clothing and wash before reuse.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.

Ingestion

Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Do not induce vomiting. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation. Chronic inhalation of dust should be avoided. Repeated exposure may cause skin dryness or cracking. Mechanical irritation of the skin and eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

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5. SECTION 5: FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media**
Suitable Extinguishing Media
Unsuitable extinguishing Media
Extinguish with carbon dioxide, dry chemical, foam or waterspray.
None known.
- 5.2 Special hazards arising from the substance or mixture**
Fire risk is slight but finely divided dust may create an explosive mixture with air. Toner, like most organic powders, is capable of creating a dust explosion when particles are dispersed. Combustion may cause toxic fumes. (Carbon monoxide, Carbon dioxide)
- 5.3 Advice for fire-fighters**
Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Avoid dust generation. Avoid breathing dust. Ensure adequate ventilation. Wear protective clothing and gloves: See Also Section 8. Ensure suitable personal protection during removal of spillages.
- 6.2 Environmental precautions**
Avoid release to the environment. Do not discharge into drains or the environment, dispose to an authorised waste collection point.
- 6.3 Methods and material for containment and cleaning up**
Use non-sparking hand tools and explosion proof electrical equipment. Dust clouds are sensitive to ignition by electrostatic discharge. Small spills should be vacuumed when possible (vacuum cleaner must be explosion proof). A vacuum equipped with HEPA (high efficiency particulate air) filtration is recommended. Dry sweeping is not recommended. If necessary, light water spray will reduce dust for dry sweeping, but over-wetting may produce very slippery walking surfaces.
- 6.4 Reference to other sections**
See Section: 8, 13

7. SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Ensure adequate ventilation. Do not breathe dust. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin, eyes or clothing. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product. Keep out of reach of children.
- 7.2 Conditions for safe storage, including any incompatibilities**
Store in a cool/low-temperature, well-ventilated (dry) place. Keep container tightly closed. Avoid contact with heat and ignition sources. If permitted to accumulate, these fines or dust can, under certain conditions, pose an explosion hazard.
Storage temperature: Ambient.
Storage life: Stable under normal conditions.
Incompatible materials: Flammable Liquid. Strong oxidizers, which could vigorously oxidize organic materials in this mixture and cause a fire in extreme cases.
- 7.3 Specific end use(s)**
This mixture is a toner used in printers and copiers.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Carbon Black	1333-86-4	-	3.5	-	7	WEL
Silica, amorphous	Chemical Family	-	6	-	-	Inhalable Dust WEL
		-	24	-	-	Respirable Dust WEL

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Source: WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2	Biological limit value	Not established.
8.1.3	PNECs and DNELs	Not established.
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.
8.2.2	Individual protection measures, such as personal protective equipment (PPE)	Use personal protective equipment as required. Wash contaminated clothing before reuse.
	Eye/face protection	Wear eye protection with side protection (EN166).
		
	Skin protection	Wear appropriate personal protective equipment, avoid direct contact. Recommended: Impervious gloves (EN 374).
		
	Respiratory protection	Normally no personal respiratory protection is necessary. In case of inadequate ventilation wear respiratory protection. A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate.
		
	Thermal hazards	None anticipated.
8.2.3	Environmental Exposure Controls	Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Fine black powder
Odour	Slight plastic-like odour
Odour Threshold	Not available.
pH	Not available.
Melting Point/Freezing Point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation Rate	Not available.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not established. Fire risk is slight but finely divided dust may create an explosive mixture with air.
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	1.1 – 1.3 (Water = 1)
Solubility(ies)	Solubility (Water): Negligible Slightly soluble in: toluene and tetrahydrofuran
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not established.
Decomposition Temperature	Not established.
Viscosity	Not established.
Explosive properties	Finely dispersed particles form explosive mixtures with air.
Oxidising properties	Not oxidising.

9.2 Other information Softening Point (°C): 90 – 110°C

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10. SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	Keep away from fire, sparks and heated surfaces. Finely dispersed particles form explosive mixtures with air.
10.4	Conditions to avoid	Avoid generation of dust.
10.5	Incompatible materials	Flammable Liquid. Strong oxidizers, which could vigorously oxidize organic materials in this mixture and cause a fire in extreme cases.
10.6	Hazardous decomposition product(s)	Combustion may cause toxic fumes. (Carbon monoxide, Carbon dioxide)

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects (Substances in preparations / mixtures)	
	Acute toxicity	
	Ingestion	Not classified. Acute Toxicity Estimate Mixture Calculation LD50 Oral >2000 mg/kg Body weight
	Inhalation	Not classified. Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation. Chronic inhalation of dust should be avoided.
	Skin Contact	Not classified. Repeated exposure may cause skin dryness or cracking.
	Skin corrosion/irritation	Not classified.
	Serious eye damage/irritation	Not classified. May cause transient irritation
	Respiratory or skin sensitization	Not classified.
	Germ cell mutagenicity	Based upon the available data, the classification criteria are not met. bis(3,5-di-tert-butylsalicylato-O1,O2)zinc Bacterial Reverse Mutation Assay (Ames test, OECD Guideline 471)
	Carcinogenicity	No component of this mixture is listed as a human carcinogen or potential carcinogen in Part 3 of Annex VI to EU Regulation (EC) No. 1272/2008 (CLP). Carbon black is listed by IARC as a Group 2B substance (possibly carcinogenic), but IARC monographs Vol. 65 and 93 state that there is inadequate evidence to classify carbon black as carcinogenic to humans. Additionally, IARC monograph Vol. 93 states that no significant exposure to carbon black is thought to occur during the use of products in which carbon black is bound to other materials, such as rubber, printing ink or paint. Carbon black in this mixture is in a bound form.
	Reproductive toxicity	Not classified.
	STOT - single exposure	Not classified.
	STOT - repeated exposure	Not classified.
	Aspiration hazard	Not classified.
11.2	Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Not classified (Mixture). This environmental hazard assessment is based on information available on similar products. Solubility (Water): Negligible (bis(3,5-di-tert-butylsalicylato-O1,O2)zinc). Estimated Criterion fulfilled >989 mg/L, Selenastrum capricornutum, 72h, (OECD201) Estimated EC50 >1000 mg/L, Daphnia magna, 48h, (OECD202) Estimated LC50 >1000 mg/L, Fish (Fathead minnow (Pimephales promelas)) Daphnia magna, 96h, (OECD203)
12.2	Persistence and degradability	No data for the mixture as a whole.
12.3	Bioaccumulative potential	No data for the mixture as a whole.
12.4	Mobility in soil	No data for the mixture as a whole. The product is predicted to have low mobility in soil.
12.5	Results of PBT and VPVB assessment	Not classified as PBT or vPvB.

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12.6 Other adverse effects None known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Dispose of contents in accordance with local, state or national legislation. Do NOT wash away into sewer.

13.2 Additional Information None.

14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	None assigned.	None assigned.	None assigned.
14.2 Proper Shipping Name	None assigned.	None assigned.	None assigned.
14.3 Transport hazard class(es)	None assigned.	None assigned.	None assigned.
14.4 Packing group	None assigned.	None assigned.	None assigned.
14.5 Environmental hazards	Not classified.	Not classified.	Not classified.
14.6 Special precautions for user	See Section: 2		
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	Not applicable.	Not applicable.
14.8 Additional Information	None.		

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU regulations
Authorisations and/or Restrictions On Use None.
This mixture complies with the requirements of the RoHS Directive 2011/65/EU. None of the substances is included on the Candidate List of Substances of Very High Concern for authorisation (Annex XIV) under REACH Regulation (EC) No. 1907/2006.

15.1.2 National regulations None known.

15.2 Chemical Safety Assessment Not available.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

References: Existing Safety Data Sheet (SDS) Existing ECHA registration(s) for Carbon Black (CAS# 1333-86-4) and Harmonised Classification(s) for bis(3,5-di-tert-butylsalicylato-O1,O2)zinc (CAS# 42405-40-3).

The mixture was classified using expert judgment in accordance with Regulation (EC) No 1907/2006. This environmental hazard assessment is based on information available on similar products.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
IC50	Half maximal inhibitory concentration
EC50	Half maximal effective concentration
LC50	Median lethal concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	vPvB: very Persistent and very Bioaccumulative
OECD	Organisation for Economic Cooperation and Development

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Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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Annex to the extended Safety Data Sheet (eSDS)

Not available.