

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking			
1.1 Product identifier:			
Product name: D-9000			
e-STUDIO900 and 1050			
SDS NO. D9000W-1			
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Developer for electrophotographic equipment			
1.3 Details of the supplier of the safety data sheet			
Manufacturer Toshiba TEC Corporation			
Address: Gate City Ohsaki West Tower 1-11-1,Osaki,Shinagawa-ku,Tokyo,141-8562,Japan			
Telephone number: +81-3-6830-9100			
Supplier			
Toshiba America Business Solutions, Inc.			
Emergency Telephone.No. +1-800-424-9300(CHEMTREC)			
For calls within the U.S.only.			
+1 703-527-3887(collect calls accepted) (CHEMTREC)			
Outside USA and Canada			
Toshiba of Canada Limited			
Telephone No.+1-905-470-3500			
For calls within Canada only.			
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2. Hazards identification

GHS classification and label elements of the product 2.1 Classification of the substance or mixture HEALTH HAZARDS Acute toxicity Oral: Out of class Skin corrosion/irritation: Out of class Skin sensitization: Out of class (Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

3. Composition/information on ingredients Substance/Mixture:

3.2 Mixture

Ingredient name	Content(%)	CAS No.
Ceramic materials and wares, chemicals	90 - 100	66402-68-4
Polyester Resin	< 10	
Carbon black	0.1-1	1333-86-4
Tin Compound	0.1-1	
Organic Metal Complex	<0.1	226996-19-6

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4. First-aid measures

- 4.1 Descriptions of first-aid measures
 - Inhalation

Remove from exposure area to fresh air immediately.

Contact a physician if there is any difficulty in breathing or other signs of distress.

Skin Contact

Wash with soap and water.

If irritation occurs or is persistent, seek medical attention.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes.

If irritation persists, call a physician.

Ingestion

Dilute stomach contents with several glasses of water.

5. Fire-fighting measures

- 5.1 Extinguishing media
 - Suitable extinguishing media

Foam, carbon dioxide, dry chemical, water fog

Unsuitable extinguishing media

None

5.2 Special Hazards

Can form explosive dust-air mixtures when finely dispersed in air.

5.3 Advice for firefighters

Special protective equipment and precautions for fire-fighters

Wear cold insulating gloves/face shield/eye protection.

6. Accidental release measures

- 6.1 Personnel precautions, protective equipment and emergency procedures Wear proper protective equipment.
 - Avoid breathing dust.
- 6.2 Environmental precautions

Do not wash away into shower or waterway.

6.3 Methods and materials for containment and cleaning up Sweep slowly spilled toner/developer and carefully transfer into a waste container.

7. Handling and storage

- 7.1 Precautions for safe handling
 - Preventive measures
 - Do not breathe dust.

Exhaust/ventilator

No special ventilation equipment is needed under intended use.

- 7.2 Conditions for safe storage, including any incompatibilities
 - Recommendation for storage
 - Store in a dry place.
 - Keep out of reach of children.

7.3 Specific end use(s)

Developer for electrophotographic equipment

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8. Exposure controls/personal protection 8.1 Control parameters ACGIH (Carbon black) ACGIH(2010) TWA: 3mg/m3(I) **OSHA-PEL** (Carbon black) TWA 3.5mg/m3 (as the product) TWA 15mg/m3(Total dust) 5mg/m3(Respirable fraction) DMG-MAK (as the product) 4mg/m3(Inhalable fraction) 1.5mg/m3(Respirable fraction) 8.2 Exposure controls Individual protection measures Respiratory protection Not required under intended use. Hand protection Not required under intended use. Eye protection Not required under intended use. Skin and body protection Not required under intended use.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties
Physical properties
Appearance: Powder/granule
Color: Black
Odor: Slightly plastic odor
Auto-ignition temperature data N.A.
Specific gravity/Density: Approx. 5g/cm3
Solubility
Solubility in water: Insoluble

10. Stability and Reactivity

10.2 Chemical stability Stable.
10.3 Possibility of hazardous reactions None
10.5 Incompatible materials None
10.6 Hazardous decomposition products None

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11. Toxicological Information 11.1 Information on toxicological effects Acute toxicity Acute toxicity (Oral), Product LD50 > 5,000 mg/kg(Based on data of other products with similar ingredients.) Irritant properties Skin corrosion/irritation Non-irritant.(Rabbit) (Based on data of other products with similar ingredients.) Skin sensitization Non-skin sensitive(Marmot) Germ cell mutagenicity Ames test :Negative Carcinogenicity (Carbon black) The IARC classified carbon black as a Group 2B carcinogen(possible human carcinogen). But carcinogenicity was not observed with toner containing carbon black in chronic rat inhalation study. No reproductive toxicity data available Delayed and immediate effects and also chronic effects from short- and long-term exposure Chronic Effects In a study in rats 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 (16 mg/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. These findings are attributed to "lung overloading", a general response to excessive amounts of any dust retained in the lungs for a prolonged period. No Aspiration hazard data available 12. Ecological Information

12.1 Toxicity Aquatic toxicity Aquatic acute toxicity component(s) data Ecotoxicity Acute Toxicity for Fish (LC50) : Not classified as toxic Acute Toxicity for Daphnia (EC50) : Not classified as toxic Algae Inhibition Test (IC50) : Not classified as toxic No Persistence and degradability data available No Bioaccumulative potential data available No Mobility in soil data available Ozone depleting chemical data not available

13. Disposal considerations

13.1 Waste treatment methods Dispose of in accordance with local, state and federal regulations. Empty plastic container may be recycled.

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14. Transport Information

UN No, UN CLASS Not applicable to UN NO. Land DOT 49 CFR, ADR :Not classified as Dangerous Goods Sea IMDG Code :Not classified as Dangerous Goods Air ICAO-TI :Not classified as Dangerous Goods

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **US/Canada** Information Toxic Substance Control Act (TSCA) All chemical substances in this product comply with all applicable rules or orders under TSCA. California Proposition 65 Not regulated. OSHA Hazard Communication Standard, 29CFR 1910.1200 Not regulated. RCRA(40 CFR 261) Product or components not listed. CERCLA/SARA Information Not regulated. NTP Annual Report on Carcinogens Not listed as an NTP carcinogen.

Controlled Products Regulations(Canada) This product has been classified in accordance with the hazard criteria of the CPR. Workplace Hazardous Materials Information System (Canada)

No toxicology information available.

EU Information

Regulation(EC)No.1907/2006(REACH)

All chemical substances in this product comply with all applicable rules or order under 1907/2006.

Australian Information

Not classified as hazardous according to criteria of NOHSC The substance is being imported or manufactured under a permit granted under section 21U of the Industrial Chemicals (Notification and Assessment)Act 1989

16. Other information

Reference Book Globally Harmonized System of classification and labelling of chemicals, (4th ed., 2011), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 18th edit., 2013 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT) 2014 TLVs and BEIs. (ACGIH) http://monographs.iarc.fr/ENG/Classification/index.php Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats H.Muhle et.al; Fundamental and Applied Toxicology 17.280-299(1991) Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats B.Bellmann; Fundamental and Applied Toxicology 17.300-313(1991)

Definitions and Abbreviations

OSHA PEL stands for Permissible Exposure Limit under Occupational Safety and Health



Administration (USA)

ACGIH TLV stands for Threshold Limit Value under American Conference of Governmental Industrial Hygienists (USA) DFG-MAK stands for Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft TWA stands for Time Weighted Average IARC stands for International Agency for Research on Cancer NTP stands for National Toxicology Program (USA) DOT stands for Department of Transportation (USA) NOHSC stands for National Occupational Health and Safety Commission (Australia) ADG stands for Australian Dangerous Goods

Restrictions

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.