

# Safety Data Sheet



**Waste Stream:** E-waste  
**Version :** 01

**Revision date:** 13 June 2016  
**Report Reference:** KSIA002

## SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Waste Stream</b> E-waste		
<b>Waste generation process</b> Used computer and electronic equipment		
<b>Restrictions on use</b> Not to be reused can be re-cycled by an approved and licenced facility.		
<b>Generators Name</b> King Shaka International Airport		
<b>Street address</b> King Shaka Dr La Mercy		
<b>City</b> Durban	<b>Province</b> KwaZulu Natal	
<b>Postal Code</b> 4405	<b>Emergency Telephone</b> ACSA Help Desk : 032-436-6758	
<b>Fax</b>	<b>Email</b> <a href="mailto:Nontokozi.Nzama@airports.co.za">Nontokozi.Nzama@airports.co.za</a>	
<b>Date SDS prepared</b> 23 March 2016	<b>SDS prepared by</b> Dolphin Coast Environmental Laboratory Solutions	<b>Phone number/ Email Address</b> 087 353 9750 / <a href="mailto:info@dcells.co.za">info@dcells.co.za</a>

## SECTION 2 HAZARDS IDENTIFICATION

<b>Human Health</b>	None Identified		
<b>Environment</b>	None Identified		
<b>Physical</b>	None Identified		
<b>Signal words</b>	<b>DANGER</b>		
<b>Hazard Statements</b>	<b>PHYSICAL</b> None identified	<b>HEALTH</b> None identified	<b>ENVIRONMENTAL</b> None identified
<b>Precautionary statements</b>	<b>PREVENTION</b> None identified	<b>RESPONSE</b> None identified	<b>STORAGE/DISPOSAL</b> None identified
<b>Pictograms:</b> None Identified			

*Note: Please refer to Section 11. E-waste contains hazardous components however if used and disposed as directed; there will be no detrimental health or environmental effects.*

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## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance	Mixture	x
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**Trace amounts of the following may be present** (the below mentioned constituents may be present with other ingredients and at different concentrations depending on the make of cartridge/toner. A list of some of the hazardous components has been developed but is not limited):

Ethylene Glycol  
2-pyrrolidone  
Ethoxylated 2, 4, 7, 9-tetramethyl-5-decyn-4, 7-diol  
Water  
Modified Carbon Black  
Dipropylene Glycol  
Sodium Hydroxide  
Glycerin  
Isopropyl Alcohol  
Thiodiglycol  
Styrene Acrylate Co-polymer  
Amorphous silica  
Iron oxide  
Titanium Dioxide  
Acrylic resin

## SECTION 4 FIRST AID MEASURES

<b>Skin contact:</b> Immediately remove/take off all contaminated clothing and rinse all affected areas with water.
<b>Eye contact</b> Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists. Eye Wash stations in the working area will be advantageous.
<b>Inhalation</b> Remove to fresh air and keep at rest in a position comfortable for breathing; until help arrives.
<b>Ingestion</b> Rinse mouth. Do not induce vomiting.
<b>Most important symptoms and effects (acute and delayed):</b> <b>Symptoms:</b> None Identified <b>Effects:</b> None Identified
<b>Protection of First Aiders and notes for doctor:</b> This product contains hazardous constituents, at unknown concentrations, see section 3 for all material and treat symptomatically.

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## SECTION 5 FIRE FIGHTING MEASURES

<b>Suitable extinguishing media</b> <ul style="list-style-type: none"><li>• Foam (Specifically trained personnel only)</li><li>• Water fog (Specifically trained personnel only)</li><li>• Dry chemical powder</li><li>• Carbon dioxide</li><li>• Other inert gases (subject to regulations)</li><li>• Sand or earth</li></ul>	<b>Unsuitable extinguishing media</b> <ul style="list-style-type: none"><li>• Direct water jets on the burning product.</li><li>• Simultaneous use of foam and water on the same surface.</li></ul>
<b>Hazardous combustion products:</b> Combustion materials may be toxic. Burning may produce carbon monoxide, carbon dioxide and other unidentified organic compounds.	
<b>Precautions for Fire-fighters</b> Complete PPE should be used if product is not handled in the correct manner.	

## SECTION 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precaution</b> Wash hands, forearms and face thoroughly after handling waste stream; before eating, smoking, using the lavatory and at the end of the work day. Appropriate measures shall be used to remove potentially contaminated clothing and shall be washed prior to re-use. Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Contaminated work clothing should not be allowed off-site. Access to area must be restricted to authorised personnel only.
<b>Protective Equipment</b> See section 8
<b>Emergency Procedures</b> Evacuate non-essential staff and those not equipped with individual protection apparatus. Fire and rescue team on-site must be contacted in order to ensure all measures are taken and all correct procedures are followed.
<b>Environmental Precautions</b> Do not release into the natural environment i.e. Water ways.
<b>Materials for containment</b> Small Spills - Spill kits should be available in appropriate locations i.e. waste storage area, loading area and en-route to the disposal facility. Large Spills - Appropriate hazmat team must be appointed by relevant personnel to ensure spill is appropriately cleared. Disposal Vehicles must have adequate labelling.
<b>Methods and materials for clean-up, neutralization and recovery</b> Contain, collect and dispose of spilled waste as per local regulations.

*Note: Please refer to Section 11. E-waste contains hazardous components however if used and disposed as directed; there will be no detrimental health or environmental effects.*

## SECTION 7 HANDLING AND STORAGE

<b>Precautions for safe handling</b> Keep away from sparks and flame. Do not breathe vapour or mist. Use in a well-ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke near this waste stream.
<b>Conditions for safe storage</b> Prior to disposal product must be stored in a dry, cool and well-ventilated place. The area must be bunded to ensure contaminants do not leach into the surrounding areas.

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## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Permissible concentrations</b> <b>Date:</b> n/a <b>Source:</b> n/a <b>Recommended test method:</b> n/a	<b>OEL</b>	<b>Biological limits</b> See comment below
<b>Engineering controls</b> Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If sulphur compounds are suspected to be present in the product, check the atmosphere for H <sub>2</sub> S content		
<b>PPE:</b> <b>Respiratory Protection:</b> Dust Mask; unless other personal protection stipulated by approved inspection authority. <b>Hand Protection:</b> chemical resistance gloves <b>Eye Protection:</b> The use of dustproof goggles or glasses with side protections is recommended. <b>Skin and Body Protection:</b> Chemical Overalls		
<b>Comments:</b> n/a		

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b> Varies	<b>Odour</b> Odourless	<b>pH (concentration)</b> Not determined
<b>Melting point</b> Not determined	<b>Freezing point</b> Not determined	<b>Boiling point, initial boiling point, boiling range</b> Not determined
<b>Flashpoint</b> Not determined	<b>Upper/lower flammability/explosive limits</b> Not determined	<b>Vapour pressure</b> Not determined
<b>Vapour density</b> Not determined	<b>Density/relative density</b> Not determined	<b>Solubility</b> Not determined
<b>n-octanol/water partition coefficient</b> Not determined	<b>Auto-ignition temperature</b> Not determined	<b>Decomposition temperature</b> Not determined
<b>Odour threshold</b> Not determined	<b>Evaporation rate</b> Not determined	<b>Flammability</b> Not determined
<b>Viscosity</b> Not determined	<b>Radioactivity</b> Not determined	

## SECTION 10 STABILITY AND REACTIVITY

<b>Chemical Stability</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>If no, under which conditions</b>
<b>Incompatibility with other substances</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>If yes, which ones?</b>

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## Anticipated hazardous decomposition products

None identified

## SECTION 11 TOXICOLOGICAL INFORMATION

- Crystalline silica is a known cause of lung fibrosis (silicosis). It has also has been classified as a human carcinogen. (International Agency for Research on Cancer).
- Carbon Black is suspected of causing cancer.
- Ethylene Glycol may cause damage to organs.
- Ethoxylated 2, 4, 7, 9-tetramethyl-5-decyn-4, 7-diol
- Sodium Hydroxide may cause skin and eye damage.
- Isopropyl Alcohol may be fatal if swallowed

*Note: Residual amounts of the above mentioned contaminants will be present.*

## SECTION 12 ECOLOGICAL INFORMATION

Component 1	
<b>Aquatic toxicity</b> No Data Available	<b>Possible environmental impact</b> Do not allow waste to the enter water ways.
<b>Persistence and biodegradability</b> Not readily biodegradable	<b>Bio-accumulative potential</b> No Data Available
<b>Mobility in soil</b> No Data Available	<b>Ecological Limit Values</b> No Data Available

## SECTION 13 DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b> None determined
<b>Waste Disposal options</b> Waste shall be disposed of according to all applicable regulations. Records of all waste been disposed must be retained and a safe disposal certificate, where applicable, must also be received from the waste disposal facility or a designated authorized area.
<b>Any other information</b> Landfill at an approved site in accordance with national and local regulations. Do not dump into any sewers, on the ground, or into any body of water.

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## SECTION 14 TRANSPORT INFORMATION

<b>UN number</b> 3077	<b>UN proper shipping name</b> Environmental Hazardous Substance; Solid; N.O.S	<b>UN classification</b> 9
<b>Packaging group</b> II	<b>Marine Pollutant</b> yes	<b>Transport in bulk according to MARPOL</b> Not Available
<b>Special Precautions</b> During transportation personnel handling this waste stream must be careful of possible exposure and spillage.		

## SECTION 15 REGULATORY INFORMATION

<b>Labelling Requirements</b> 
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## SECTION 16 OTHER INFORMATION

A large quantity of data has been reviewed from various sources based on the contaminants of the above mentioned waste stream.
The information gathered and contents of this Safety Data Sheet are based on the current knowledge of the contaminants and an overall description of what could possibly be harmful to humans/aquatic environment. The waste stream must not be used for any other purpose unless handling instructions are obtained from the supplier.
<b>Risk Phrases that might apply to the above product:</b> R10 Flammable R45 May cause cancer R46 May cause inheritable genetic damage R58 May cause long-term adverse effects in the environment
<b>REFERENCES:</b> 1. The European Chemicals Agency.[ONLINE] Available at: <a href="http://echa.europa.eu/">http://echa.europa.eu/</a> 2. Sigma-Aldrich. 2014. sigma-Aldrich. [ONLINE] Available at: <a href="https://www.sigmaldrich.com/south-africa.html">https://www.sigmaldrich.com/south-africa.html</a> . 3. General Material Safety Data Sheets of Electronic Equipment 4. SANS 10243 (2008) Globally Harmonized System of classification and labelling of chemicals 5. Understanding the globally harmonized system of classification and labelling of chemicals(GHS) – June 2010
NOTICE: DCELS has completed this SDS through information conducted in good faith and believed to be correct and according to SANS 10234 at the date hereof. DCELS makes no depiction as to the completeness or accuracy thereof. Information is supplied and it is the responsibility of the persons receiving the substance to make their own determination as to the safety and suitability of their purposes prior to use. DCELS accepts no responsibility for damages of any nature whatsoever resulting from the use or reliance on the above information.