

Waste Stream: Printer and Toner Cartridges Revision date: October 2019

Report Ref: Version: 0

pSECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Waste Stream					
Printer and Toner Cartridges					
Waste Generation Process	Waste Generation Process				
Used cartridges from Transne	et pipelines (Canon, Hewlett Packa	rd and Epson)			
Restrictions on use					
Can be re-used or re-cycled b	y an appropriate appointed facility	у.			
Generators Name					
Transnet Pipelines -Mngeni P	umpstation				
Street address	Street address				
6 Stockville Road, Mahogany	6 Stockville Road, Mahogany Ridge, Westmead				
City		Province			
Durban		Kwazulu Natal			
Postal Code		Emergency Telephone			
		031 308 8215 & 083 452 0577			
Fax		Email sibongile.mbhele@transnet.net			
		Shorther transferred			
Date SDS prepared	SDS prepared by		Phone number/ Email Address		
October 2019	Dolphin Coast Environmen	ntal Laboratory	087 353 9750 / info@dcels.co.za		
	Solutions				

SECTION 2 HAZARDS IDENTIFICATION

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

Note: Please refer to Section 11



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SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance	Mixture	х
Jubstance	IVIIACUIC	^

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

Amorphos silica

Iron oxide

Titanium Dioxide

Acrylic resin

SECTION 4 FIRST AID MEASURES

Skin contact:

Immediately remove/take off all contaminated clothing and rinse all affected areas with water.

Eve contact

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.

Inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing; until help arrives.

Ingestion

Rinse mouth. Do not induce vomiting.

Most important symptoms and effects (acute and delayed):

Symptoms: None Identified

Effects: None Identified

Protection of First Aiders and notes for doctor:

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

Suitable extinguishing media	Unsuitable extinguishing media
 Foam (Specifically trained personnel only) Water fog (Specifically trained personnel only) Dry chemical powder Carbon dioxide Other inert gases (subject to regulations) Sand or earth 	 Direct water jets on the burning product. Simultaneous use of foam and water on the same surface.
Hazardous combustion products:	
Combustion materials may be toxic. Burning may produce carbon monoxide, carbon dioxide and other unidentified organic compounds.	
Precautions for Fire-fighters	
Complete PPE should be used with worn.	

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precaution

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.

Protective Equipment

See section 8

Emergency Procedures

Evacuate non-essential staff and those not equipped with individual protection apparatus. Spillages make surfaces slippery; SHEQ team on-site must be contacted in order to ensure all measures are taken and all correct procedures are followed.

Environmental Precautions

Do not release into the environment or allow waste stream to enter into water ways.

Materials for containment

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.

Methods and materials for clean-up, neutralization and recovery

Contain, collect and dispose of spilled waste as per local regulations.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

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.

Conditions for safe storage

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

	Biological limits
identified	See comment below
	eidentified

Engineering controls

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 H2S content

PPE:

Respiratory Protection: Dust Mask; unless other personal protection stipulated by approved inspection authority.

Hand Protection: chemical resistance, specifically to aromatic hydrocarbons

Eye Protection: The use of dustproof goggles or glasses with side protections is recommended.

Skin and Body Protection: Chemical Resistant Gloves

Comments:

No exposure limits have been established for this material; however, exposure limits may be available for individual constituents, listed in section 3. Contaminated packaging contains minute amounts of constituents listed in section 3.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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

Note: further tests will have to be conducted for the above-mentioned parameters



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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability					If no, under which conditions
	Yes	х	No		
Incompatibility with other s	ubstar	ices			If yes, which ones?
	Yes		No	Х	
Anticipated hazardous deco	mposi	tion products			
None identified					

SECTION 11 TOXICOLOGICAL INFORMATION

- <u>Crystalline silica</u> is a known cause of lung fibrosis (silicosis). It has also has been classified as a human carcinogen. (International Agency for Research on Cancer).
- <u>Carbon Black</u> is suspected of causing cancer.
- Ethylene Glycol may cause damage to organs.
- Ethoxylated 2, 4, 7, 9-tetramethyl-5-decyn-4, 7-diol
- <u>Sodium Hydroxide</u> 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		
Aquatic toxicity Chronic aquatic toxicity (Category 2), H411	Possible environmental impact No Data Available	
Persistence and biodegradability Not readily biodegradable	Bio-accumulative potential No Data Available	
Mobility in soil No Data Available	Ecological Limit Values No Data Available	

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	
None determined	
Waste Disposal options	
Waste shall be disposed of according to all applicable regulations. As per the new waste regulations records of all waste beer	n
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.	
Any other information	
Landfill at an approved site in accordance with national and local regulations. Do not dump into any sewers, on the ground, or	or
into any body of water.	



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SECTION 14 TRANSPORT INFORMATION

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

REGULATORY INFORMATION

Labelling Requirements



SECTION 15

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. Caution must be practiced as there is a potentially of the above-mentioned waste been flammable because of the presence of Diesel.

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.

Risk Phrases that might apply to the above product:

R10 Flammable

R45 May cause cancer

R46 May cause inheritable genetic damage

R58 May cause long-term adverse effects in the environment

REFERENCES:

- 1. The European Chemicals Agency.[ONLINE] Available at: http://echa.europa.eu/
- 2. Sigma-Aldrich. 2014. sigma-Aldrich. [ONLINE] Available at: https://www.sigmaaldrich.com/south-africa.html.
- 3. General Material Safety Data Sheets
- 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.