

Safety Data Sheet



Waste stream: Contaminants of empty paint cans

Report reference: KSIA006

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Revision date: 15 Jun. 16

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Waste Stream Empty Paint Containers		
Waste Generation Process Paint containers that have residual paint.		
Restrictions on use Do not re-use unless re-cycled by an approved facility		
Generators Name King Shaka International Airport		
Street address King Shaka Dr La Mercy		
City Durban	Province KwaZulu Natal	
Postal Code 4405	Emergency Telephone ACSA Help Desk : 032-436-6758	
Fax	Email Nontokozi.Nzama@airports.co.za	
Date SDS prepared 15 June 2016	SDS prepared by Dolphin Coast Environmental Laboratory Solutions	Phone number/ Email Address 087 353 9750 / info@dcels.co.za

SECTION 2 HAZARDS IDENTIFICATION

Human Health	Aspiration Toxicity (category 1) - H304 Acute Toxicity – Dermal (Category 4) - H312 Skin Irritant (category 2) - H315 Skin Sensitizer (Category 1) - H317 Eye Irritant (Category 2) - H319 Acute Toxicity (Category 4) - H332 Respiratory Sensitizer (Category 1) - H334 STOT Single Exposure (category 3) - H336 Carcinogen (Category 1B) - H350 Reproductive (Category 1A) - H360 STOT Reported Exposure (Category 1) - H373
Environment	Aquatic Chronic (Category 2) - H411: Toxic to aquatic life with long lasting effects
Physical	See section 16
Signal words	DANGER

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Hazard Statements	PHYSICAL	HEALTH	ENVIRONMENTAL
	None identified	<p>H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H317: May cause an allergic skin reaction.</p> <p>H350: May cause cancer.</p> <p>H360: May damage fertility or the unborn child.</p> <p>H373: May cause damage to organs.</p> <p>H315: Causes skin irritation.</p> <p>H361: Suspected of damaging fertility or the unborn child.</p> <p>H336: May cause drowsiness or dizziness. Affected organs: Central nervous system Route of exposure: Inhalation</p> <p>H304: May be fatal if swallowed and enters airways.</p> <p>H332: Harmful if inhaled.</p> <p>H319: Causes serious eye irritation.</p> <p>H312: Harmful in contact with skin.</p> <p>H373: May cause damage to organs Affected organs: Neurologic: other (neuropsychological effects, auditory dysfunction and effects on colour vision) Route of exposure: Inhalation</p>	H411: Toxic to aquatic life with long lasting effects

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Precautionary statements	<u>PREVENTION</u>	<u>RESPONSE</u>	<u>STORAGE/DISPOSAL</u>
	<p>P202: Do not handle until all safety precautions have been read and understood.</p> <p>P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking</p> <p>P261: Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P271: Use only outdoors or in a well-ventilated area.</p> <p>P281: Use personal protective equipment as required</p>	<p>P308 + P313 :IF exposed or concerned: Get medical advice/attention</p>	<p>P403 + P235: Store in a well-ventilated place. Keep cool.</p> <p>P501: Dispose of contents/container in accordance with local and national regulations</p>

Pictograms:



SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance	Mixture	X
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The contaminants are listed below:

Hazardous ingredients	% (concentration range)	CAS Number
Xylene	Residual	1330-20-7
Toluene	Residual	108-88-3
Petroleum Solvent	Residual	64742-89-8
Lead chrome Pigment Red	Residual	12656-85-8
Butyl Acrylate	Residual	141-32-2

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SECTION 4 FIRST AID MEASURES

Skin contact Wash off with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. If skin irritation persists, call a physician
Eye contact Use clean, lukewarm tap water for at least 20 minutes. Use whichever of these approaches is quickest: <ul style="list-style-type: none">○ Get into the shower and aim a gentle stream of water on your forehead over your affected eye. Or direct the stream on the bridge of your nose if both eyes are affected.○ Hold the lids of your affected eye or eyes open. Put your head down and turn it to the side. Then hold the lids of your affected eye open under a gently running faucet. If you have access to a work site eye-rinse station, use it. After thoroughly flushing the eye(s), it would be wise to see your ophthalmologist as soon as possible or go to the emergency room of a nearby hospital. Eye Wash stations in the working area will be advantageous.
Inhalation In case of accidental inhalation move person to fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, consult a physician.
Ingestion If swallowed do not induce vomiting. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If symptoms persist, seek medical advice
Most important symptoms and effects (acute and delayed) Symptoms: Exposure to high vapour concentrations may cause respiratory irritation, drowsiness, nausea and headaches Effects: No Data Available
Protection of First Aiders and notes for doctor Treatment based on judgment of the physician in response to reactions of the patient and this SDS must be shown to the physician.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO ₂)	Unsuitable extinguishing media Do not use water jet
Hazardous combustion products In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of Nitrogen may be produced. Vapours may form explosive mixtures with air. Flash back possible over considerable distance	
Precautions for Fire-fighters In the event of fire, Use personal protective equipment.	

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precaution Wash hands, forearms and face thoroughly after handling waste product; 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 are to be kept in closed steel containers and must be emptied once full. Empty paint cans should not be removed off-site by unauthorized personnel. Access to storage area should be limited to employees working with chemicals. Avoid breathing fume/mist/vapours/spray. Store in a well-ventilated area
Protective Equipment See section 8

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<p>Emergency Procedures Evacuate non-essential staff and those not equipped with individual protection apparatus. Spillages make surfaces slippery; fire and rescue team on-site must be contacted in order to ensure all measures are taken and all correct procedures are followed.</p>
<p>Environmental Precautions Do not release into the environment or allow waste stream to enter into water ways.</p>
<p>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.</p>
<p>Methods and materials for clean-up, neutralization and recovery Contain, collect and dispose of spilled waste as per local regulations.</p>

SECTION 7 HANDLING AND STORAGE

<p>Precautions for safe handling Keep containers tightly closed. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Handle in accordance with good industrial hygiene and safety practice. Before and After handling the above mentioned contaminants don't eat, drink or smoke without washing your hands. Hands and/or face should be washed before breaks and at the end of the shift.</p>
<p>Conditions for safe storage Ensure adequate ventilation. Advice on protection against fire and explosion: Keep away from sources of ignition - No smoking. Vapors may form explosive mixtures with air. Local regulations shall be consulted prior to bulk storage of chemicals</p>

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

<p>Permissible concentrations Date: No Data Available Source: No Data Available Recommended test method: No Data Available</p>	<p>OEL No Data Available</p>	<p>Biological limits No Data Available</p>
<p>Engineering controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location</p>		
<p>PPE: Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment Hand Protection: Handle with chemical resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product Eye Protection: Safety glasses with side-shields Skin and Body Protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace</p>		
<p>Comments None</p>		

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance Containers	Odour Strong	pH (concentration) Unknown
Melting point No Data Available	Freezing point No Data Available	Boiling point, initial boiling point, boiling range No Data Available
Flashpoint -3 to 13°C	Upper/lower flammability/explosive limits No Data Available	Vapour pressure No Data Available
Vapour density No Data Available	Density/relative density No Data Available	Solubility No Data Available
n-octanol/water partition coefficient No Data Available	Auto-ignition temperature No Data Available	Decomposition temperature No Data Available
Odour threshold No Data Available	Evaporation rate No Data Available	Flammability Highly Flammable
Viscosity No Data Available	Radioactivity No Data Available	

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If no, under which conditions
Incompatibility with other substances Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, which ones?
Anticipated hazardous decomposition products smoke, carbon monoxide, carbon dioxide and oxides of Nitrogen may be produced during fires	

SECTION 11 TOXICOLOGICAL INFORMATION

Component 1 - Lead chromate molybdate sulfate red	
Acute toxicity Conclusive but not for classification	Skin irritation/corrosion Conclusive but not for classification
Eye damage/irritation Conclusive but not for classification	Respiratory or skin sensitization Respiratory Sensitizer (Category 1) - H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin Sensitizer (Category 1) - H317: May cause an allergic skin reaction.
Germ cell mutagenicity Conclusive but not for classification	Carcinogenicity Carcinogen (Category 1B) - H350: May cause cancer.

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<p>Reproductive toxicity Reproductive (Category 1A) - H360: May damage fertility or the unborn child.</p>	<p>Specific target organ toxicity – single exposure Conclusive but not for classification</p>
<p>Specific target organ toxicity – repeated exposure STOT Reported Exposure (Category 1) - H373: May cause damage to organs.</p>	<p>Aspiration hazard Conclusive but not for classification</p>
<p>Component 2 - Petroleum Solvent</p>	
<p>Acute toxicity Conclusive but not for classification</p>	<p>Skin irritation/corrosion Skin Irritant (category 2) - H315: Causes skin irritation.</p>
<p>Eye damage/irritation Conclusive but not for classification</p>	<p>Respiratory or skin sensitization Conclusive but not for classification</p>
<p>Germ cell mutagenicity Conclusive but not for classification</p>	<p>Carcinogenicity Conclusive but not for classification</p>
<p>Reproductive toxicity Reproductive (category 2) - H361: Suspected of damaging fertility or the unborn child.</p>	<p>Specific target organ toxicity – single exposure STOT Single Exposure (category 3) - H336: May cause drowsiness or dizziness. Affected organs: Central nervous system Route of exposure: Inhalation</p>
<p>Specific target organ toxicity – repeated exposure Conclusive but not for classification</p>	<p>Aspiration hazard Aspiration Toxicity (category 1) - H304: May be fatal if swallowed and enters airways.</p>
<p>Component 3 – Butyl Acrylate</p>	
<p>Acute toxicity Acute Toxicity (Category 4) - H332: Harmful if inhaled.</p>	<p>Skin irritation/corrosion Skin Irritant (category 2) - H315: Causes skin irritation.</p>
<p>Eye damage/irritation Eye Irritant (Category 2) - H319: Causes serious eye irritation.</p>	<p>Respiratory or skin sensitization Skin Sensitizer (Category 1B) - H317: May cause an allergic skin reaction.</p>
<p>Germ cell mutagenicity Conclusive but not for classification</p>	<p>Carcinogenicity Conclusive but not for classification</p>
<p>Reproductive toxicity Conclusive but not for classification</p>	<p>Specific target organ toxicity – single exposure STOT Single Exposure (Category 3) - H335: May cause respiratory irritation. Affected organs: Respiratory tract Route of exposure: Inhalation</p>
<p>Specific target organ toxicity – repeated exposure Conclusive but not for classification</p>	<p>Aspiration hazard Conclusive but not for classification</p>
<p>Component 4 - xylene</p>	
<p>Acute toxicity Acute Toxicity – Dermal (Category 4) - H312: Harmful in contact with skin. Acute Toxicity – Inhalation (category 4) - H332: Harmful if inhaled.</p>	<p>Skin irritation/corrosion Skin Irritant (category 2) - H315: Causes skin irritation.</p>
<p>Eye damage/irritation Conclusive but not for classification</p>	<p>Respiratory or skin sensitization Conclusive but not for classification</p>

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Germ cell mutagenicity Conclusive but not for classification	Carcinogenicity Conclusive but not for classification
Reproductive toxicity Conclusive but not for classification	Specific target organ toxicity – single exposure Conclusive but not for classification
Specific target organ toxicity – repeated exposure Conclusive but not for classification	Aspiration hazard Conclusive but not for classification
Component 5 - toluene	
Acute toxicity No Data Available	Skin irritation/corrosion Skin Irritant (Category 2) - H315: Causes skin irritation.
Eye damage/irritation Eye Irritant (Category 2) - H319: Causes serious eye irritation.	Respiratory or skin sensitization Conclusive but not for classification
Germ cell mutagenicity Conclusive but not for classification	Carcinogenicity Conclusive but not for classification
Reproductive toxicity Reproductive (Category 2) - H361: Suspected of damaging fertility or the unborn child	Specific target organ toxicity – single exposure STOT Single Exposure (category 3) - H336: May cause drowsiness or dizziness. Affected organs: Central nervous system Route of exposure: Inhalation
Specific target organ toxicity – repeated exposure STOT Repeated Exposure (Category 2) - H373: May cause damage to organs Affected organs: Neurologic: other (neuropsychological effects, auditory dysfunction and effects on colour vision) Route of exposure: Inhalation	Aspiration hazard Aspiration Toxicity (Category 1) - H304: May be fatal if swallowed and enters airways.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity Aquatic Chronic (Category 2) - H411: Toxic to aquatic life with long lasting effects	Possible environmental impact No Data Available
Persistence and biodegradability No Data Available	Bio-accumulative potential No Data Available
Mobility in soil No Data Available	Ecological Limit Values No Data Available

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SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods None
Waste Disposal options 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.
Any other information Material must be disposed of as hazardous waste in accordance with local and national environmental requirements. Do NOT wash away into sewers or waterways. Must be transported and disposed of by appropriately licensed waste disposal company.

SECTION 14 TRANSPORT INFORMATION

UN number 3077	UN proper shipping name Environmental Hazardous Substance; Solid; N.O.S	UN classification 9
Packaging group II	Marine Pollutant No data Available	Transport in bulk according to MARPOL No data available
Special Precautions CAUTION should be taken during transportation to avoid spillage/leakages. Ensure that personnel transporting the product know what to do in an event of an accident/spillage		

SECTION 15 REGULATORY INFORMATION

Labelling Requirements 
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SECTION 16 OTHER INFORMATION

A large quantity of data has been reviewed from various sources based on the substances that contribute to this mixture. The waste stream can be flammable due to presence of solvent petroleum, xylene and toluene.
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.

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Risk Phrases that might apply to the above product:

- R11 Highly flammable
- R36 Irritating to eyes
- R45 May cause cancer
- R46 May cause inheritable genetic damage
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R65 Harmful: may cause lung damage if swallowed
- R67 Vapours may cause drowsiness and dizziness

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. Material Safety Data Sheets provided by King Shaka International Airport.
4. SANS 10234 (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.