1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade Name  

xcm-nsI1J

Color  

Metallic Blue

Pure substance/mixture  

Mixture

Identified uses  

Ink jet printing

Supplier Address  

Xerox Research Centre of Canada  
2660 Speakman Drive  
Mississauga, ON L5K 2L1  
Phone: (905) 823-7091

Manufactured by  

Xerox Research Centre of Canada  
2660 Speakman Drive  
Mississauga, ON L5K 2L1  
Phone: (905) 823-7091

Responsible/issuing person  

EHS Department

Contact person  

Emergency telephone  

Transportation Emergency: CANUTEC at 613-996-6666

Classification of the substance or mixture

Classification of this mixture is based on the characterisitics of the components. The product has not been completely analyzed and all of the hazards may not be known. Please use caution while handling this product

GHS - Classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Acute Aquatic Toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>Chronic Aquatic Toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>Flammable liquids</td>
<td>Category 4</td>
</tr>
</tbody>
</table>

GHS Label elements, including precautionary statements
SDS #: CSB 00049  

**Signal Word**: Warning

**Hazard Statements**

H227 - Combustible liquid  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation

**Precautionary Statements**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P264 - Wash hands thoroughly after handling  
P280 - Wear eye protection/face protection  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P321 - Specific treatment (see supplemental first aid instructions on this label)  
P332 + P313 - If skin irritation occurs: Get medical advice/attention  
P362 - Take off contaminated clothing and wash before reuse  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P403 + P235 - Store in a well-ventilated place. Keep cool  
P501 - Dispose of contents/container to an approved waste disposal plant

**Other hazards which do not result in classification**

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>EC-No</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Silver Amine Complex</td>
<td>NOT AVAILABLE</td>
<td>40-55</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Bicyclohexyl</td>
<td>92-51-3</td>
<td>20-40</td>
<td>Present</td>
</tr>
<tr>
<td></td>
<td>Phenylcyclohexane</td>
<td>827-52-1</td>
<td>10-30</td>
<td>Present</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Description of necessary first-aid measures**

**General advice**

Consult a physician. Show this material safety data sheet to the doctor in attendance. Move victim to a safe isolated area.

**Eye contact**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Get medical attention immediately if irritation persists.

**Skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Remove and wash contaminated clothing before re-use.

**Inhalation**

Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped, contact emergency medical services immediately. Get medical attention immediately if symptoms occur.

**Ingestion**

Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.

**Protection of first-aiders**

Use personal protective equipment.

**Most important symptoms/effects, acute and delayed**
Main symptoms  May cause eye and skin irritation

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician  Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point  (based on Phenylcyclohexane):
81 deg C (178 deg F) - Closed Cup

Suitable extinguishing media

Suitable extinguishing media  SMALL FIRE: Use Dry chemical, CO2, water spray or foam. LARGE FIRE: Use water spray, fog or foam. Wear self contained breathing apparatus and protective clothing.

Extinguishing media which must not be used for safety reasons  Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical
Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks) Flash back possible over considerable distance Combustible material

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions  DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST. Wear protective gloves/clothing and eye/face protection. For personal protection see section 8.

Environmental Precautions

Environmental Precautions  Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment  Prevent further leakage or spillage if safe to do so Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

Methods for cleaning up  Soak up with inert absorbent material. Avoid contact with heat and ignition sources. After cleaning, flush away traces with water.

Other information

Other information  Wear personal protective equipment. Refer to protective measures listed in Sections 7 and 8.

7. HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling

Do not breathe vapours or spray mist. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.
S36 - Wear suitable protective clothing
S24/25 - Avoid contact with skin and eyes

Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Store in an amber glass container. Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition. For prolonged shelf life (three months), the inks should be stored with the lid tightly closed and in the fridge. If possible, the bottle should be purged after every use.

Incompatible products
No materials to be especially mentioned

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

| ACGIH TLV TWA | Not established |
| ACGIH OEL (STEL) | Not established |

Appropriate engineering controls

Engineering measures
Ground and bond containers when transferring material. Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment (PPE)

Personal Protective Equipment

General Information
If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Respiratory protection
Goggles
Impervious clothing Boots
Nitrile rubber Protective gloves

Hygiene measures
Avoid breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

| Physical state | Liquid |
| Appearance | Liquid |
| Color | Metallic Blue |
| Odor | Characteristic |
| Odor threshold | No information available |
Important health safety and environmental information

pH: No information available
Flash point: (based on Phenylcyclohexane): 81 deg C (178 deg F) - Closed Cup
Autoignition temperature: No information available
Boiling point/range: No information available
Vapor pressure: No information available
Vapor density: No information available
Water solubility: Insoluble
Partition coefficient: No information available
Viscosity: No information available
Specific gravity: No information available
Decomposition temperature: No information available
Evaporation rate: No information available
Flammability Limits in Air: No information available

Other information
Softening point: No information available
Melting point/range: No information available
Freezing point: No information available

10. STABILITY AND REACTIVITY

Reactivity
No dangerous reaction known under conditions of normal use.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Conditions to Avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight. Exposure to air or moisture over prolonged periods.

Materials to Avoid
No materials to be especially mentioned

Hazardous Decomposition Products
Carbon oxides. Nitrogen oxides (NOx). Thermal decomposition can lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Product Information
Irritation: Irritating to eyes and skin
Oral LD50: No information available
Dermal LD50: No information available
LC50 Inhalation: No information available

Toxicokinetics, metabolism and distribution
Eyes: Contact with eyes may cause irritation
Skin: Substance may cause slight skin irritation
Inhalation: No known effect
Ingestion

No known effect

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenylcyclohexane</td>
<td>7940 mg/kg (Rabbit)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Main symptoms

May cause eye and skin irritation

Aggravated Medical Conditions

None known

Chronic toxicity

Sensitization

No information available

Neurological Effects

No information available

Target organ effects

No information available

CMR Effects

Carcinogenicity

Carcinogenic potential is unknown.

Developmental toxicity

No information available

Teratogenicity

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Phenylcyclohexane: Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia pulex (Water flea) - 0.55 mg/l - 48 h

Bicyclohexyl: Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia pulex (Water flea) - 0.035 mg/l - 48 h.

Mobility

No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products

Dispose of in accordance with local regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Note

This material is subject to regulation as a hazardous substance as listed below.

TDG

UN/ID No: 1993

Hazard class: TDG Class 3: Flammable Liquid

Proper shipping name: Combustible Liquid, n.o.s

Packing Group: III
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Research &amp; Development Exempt</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Research &amp; Development Exempt</td>
</tr>
</tbody>
</table>

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

National regulatory information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Restrictions on use</th>
<th>Threshold limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bicyclohexyl - 92-51-3</td>
<td>Group</td>
<td></td>
</tr>
<tr>
<td>Phenylcyclohexane - 827-52-1</td>
<td>Group</td>
<td></td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Issuing Date 2015-10-27
Revision Date 2017-01-27
Revision Note No information available.
Sources of key data used to compile the datasheet
• Supplier MSDS of components.

Disclaimer
This material has not been tested and evaluated by Xerox.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.