

Material Safety Data Sheet (ANSI form)

Section1 : Chemical Product and Company Identification

Product Name : Color Drum Unit Impressia
General Use : The image formation of printing machine or copier.
MSDS Number : 403115
Company Name : Xanté Corporation
Address : 2800 Dauphin Street, Mobile, AL 36606-2400
Telephone : USA 1-800-926-8393
Telefax Number : 1-251-473-6503
Website : www.xante.com
Emergency Information: call Chem-Tel at 1-800-255-3924 or 1-813-248-0585

Section2 : Composition, Information on Ingredients

Ingredients CAS No./Common Name	Contents (%)	ACGIH (TLV)			OSHA (PEL)	
		TWA	STEL	C	TWA	C
7429-90-5 Al Substrate	>98	not applicable	not applicable	not applicable	not applicable	not applicable
Confidential Charge Transport Material	<1	N.A	N.A	N.A	N.A	N.A
Confidential Binder Resin	<1	N.A	N.A	N.A	N.A	N.A
Confidential Organic Pigment	<1	N.A	N.A	N.A	N.A	N.A
Confidential Metal oxide	<1	N.A	N.A	N.A	N.A	N.A

This product does not contain any of the following substances as ingredients.

Cadmium, Hexavalent Chromium, Mercury, Lead, Polybrominated biphenyls (PBB), Polybrominated diphenyleters (PBDE).

Section3 : Hazards Identification

Emergency Overview				
HMIS	Health : 1	Flammability: 1	Reactivity : 0	PPE:See section 8
NFPA	Health : 1	Flammability: 1	Reactivity : 0	

The Most Important Hazards

Adverse Human Health Effects :

There are no significant hazards expected with intended use.

Potential Health Effects

Primary Entry Routes :

Inhalation ; No

Skin ; No

Ingestion ; No

Environmental Effects :

There are no significant hazards expected with intended use.

Physical and Chemical Hazards :

There are no significant hazards expected with intended use.

Specific Hazards :

There are no significant hazards expected with intended use.

Main Symptoms :

Acute Inhalation Toxicity

Under normal use conditions, there is no possibility to inhale the particle of photosensitive component.

Acute Oral Toxicity

Under normal use conditions, there is no possibility to swallow the particle of photosensitive component.

Acute Eye Irritation

Under normal use conditions, there is no possibility to enter into the eye.

Acute Skin Irritation

May be non-irritant.

Sensitization

May be non-sensitization.

Chronic Effect

Under normal use conditions, there is no possibility to inhale the particle of photosensitive component.

Carcinogenicity

This product has no danger of carcinogenicity. Because, as for this product, is a drum form, and is strongly adhered to an aluminum substrate; the particle of photosensitive component needs not to be released.

Medical Conditions Aggravated by Exposure

Not applicable

Classification of the Chemical Product

Not applicable

Section4 : First Aid Measures

Inhalation :
 Not applicable
Skin Contact :
 In case of contact with skin, there is no problem.
Eye Contact :
 Not applicable
Ingestion :
 Not applicable
Immediate Medical Attention :
 Immediate medical attention is not required.

Section5 : Fire Fighting Measures

Flash Point (degrees centigrade) : Not applicable
Burning Rate (mm/sec) : Not available
Autoignition Temperature (degrees centigrade) : Not applicable
Flammable Limits[%] : LEL Not applicable UEL Not applicable
Extinguishing Media to Avoid :
 Not applicable.
Specific Hazards :
 Not applicable
Fire-Fighting Instructions / Specific Method :
 No special fire protecting method is required. Sprinkling or fire extinguishers can be used.
Protection of Firefighters :
 Wear gloves, glasses, a mask if necessary.

Section6 : Accidental Release Measures

Personal Precautions :
 Not applicable
Environment Precautions :
 Not applicable
Methods for Cleaning Up :
 Not applicable

Section7 : Handling and Storage

Handling :
 Technical Measures/Precautions
 Not applicable
 Safe Handling Advice
 For the sake of quality, do not touch surface of photoreceptor.
Storage :
 Technical Measures
 Not applicable
 Storage Conditions
 Keep out of reach of children.
 For the sake of quality, store in dry and well-ventilated area it should not exceed 35 degrees centigrade for a long time and avoid direct sunlight.
 Packaging material
 Not applicable
Specific Use(s) :
 Image formation in printing machines or copiers.

Section8 : Exposure Controls/Personal Protection

Technical measures :

Use adequate ventilation. None required with intended use.

Control Parameters

Exposure Limit Value (I)

USA OSHA PEL (TWA) : Not applicable

ACGIH TLV (TWA) : Not applicable

DFG MAK : Not applicable

Personal Protection

Respiratory Protections (Specify Type)

None required in normal use.

Eye Protection

None required in normal use.

Protective Gloves

None required in normal use.

Protective Clothing or Equipment

None required in normal use.

Hygiene Measures

Wash hands after handling.

Section9 : Physical and Chemical Properties

Appearance

Physical state : Solid

Form : Drum

Colour : dark blue

Odor : No odor

pH : Not applicable

Boiling Point (degrees : Not applicable
centigrade)

Vapor Pressure (Pa) : Not applicable
:

Vapor Density : Not applicable
(AIR=1)

Density (g/L) : 2.5-3.5 (as aluminum)

Formula Weight : Not applicable

Melting Point (degrees : Not applicable
centigrade)

Decomposition temperature (degrees : Not available
centigrade)

Viscosity (Pals) : Not applicable

Volatile (%) : Below 0.1

Evaporation Rate (Butyl Acetate = 1) : Not applicable

Water Solubility (g/L) : Insoluble

Other solvent Solubility (g/L) : Not available

Section10 : Stability and Reactivity

Stability :

Stable

Hazardous Reaction :

There is no significant hazardous reaction expected with intended use.

Condition to Avoid :

Not applicable in normal use.

Materials to Avoid :

Not applicable in normal use.

Hazardous Polymerization :

None

Hazardous Decomposition or Byproducts :

Decomposition products will not occur.

Section11 : Toxicological Information

Acute Toxicity
Acute Oral Toxicity (LD50) :
Not available
Acute Dermal Toxicity :
Not available
Acute Inhalation Toxicity :
Not applicable
Local effects
Acute Skin Irritation(PII) :
Not available
Acute Eye Irritation :
Not applicable
Sensitization
Acute Allergenic Effects :
Not available
Specific Effects
Carcinogenicity :
This product has no danger of carcinogenicity. Because, as for this product, is a drum form, and is strongly adhered to an aluminum substrate; the particle of photosensitive component needs not to be released.
Mutagenicity : Negative (Ames test)
Reproduction Toxicity : Does not contain substances listed as hazardous to reproductive health.
Teratogenic : Not available

Section12 : Ecological Information

Mobility : No data are available on the adverse effect one environment.
Persistence/Degradabilit : Not available
y
Bioaccumulation : Not known in bioaccumulation.
Ecotoxicity
Acute Toxicity for Fish (LC50) : Not available
Acute Toxicity for Daphnia : Not available
(EC50)
Algae Inhibition Test (IC50) : Not available

Section13 : Disposal Consideration

General information:
Used drum should be disposed in an environmentally appropriate manner and accordance with governmental regulations.

Disposal methods:
Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Confirm disposal procedures with local regulations.

Precautions
Not applicable

Section14 : Transport Information

International Regulations

Land Transport

RID/ADR : Not applicable

DOT 49 CFR : Not applicable

ADNR : Not applicable

Sea Transport

IMDG Code : Not applicable

Air Transport

ICAO-TI/IATA-DGR : Not applicable

UN Number : Not applicable

Specific Precautionary Transport Measures and Conditions

Keep it in cool and dry storage and avoid direct sun for quality.

Section15 : Regulatory Information

Regulations

US Information

Information on the label : Not required

TSCA (Toxic Substances Control Act) :

 This product complies with all applicable rules and regulations under TSCA.

SARA (Superfund Amendments and Reauthorization Act) Title III

 313 Reportable Ingredients : Not regulated

California Proposition 65 : Not regulated

Canada Information

WHMIS Controlled product : Not a controlled product

EU Information

Information on the label (1999/45/EC and 67/548/EEC)

Symbol & Indication : Not required

R-Phrase : Not required

S-Phrase : Not required

Special Precautions under 1999/45/EC Annex V : Not required

76/769/EEC

 This product complies with applicable rules and regulations under 76/769/EEC

Section16 : Other Information

Explanation of Hazardous Materials Identification System [HMIS]& National Fire Protection Association [NFPA] Hazard Rating Systems:

Both the HMIS and NFPA systems use number from "0" to "4" to show the degree of hazard in an uncontrolled situation:

0=Minimum Hazard 1=Slight Hazard 2=Moderate Hazard 3=Serious Hazard 4=Severe Hazard

Colors may also be used in both systems:

Blue=Health Hazard **Red**=Fire Hazard **Yellow**=Reactivity Hazard **White**=Indicate a special hazard

HMIS will specify any Personal Protective Equipment required [PPE],

NFPA will specify OX(oxidizer), Acid(acid), ALK(Alkali), COR(Corrosive), W(use no water), xx(Radioactive).

Literature References :

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC (1996) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.65, Printing Process and Printing Inks, Carbon Black and Some Nitro Compounds", Lyon, pp149-261

H.Muhle, B.Bellman, O.Creutzenberg, C.Dasenbrock, H.Emst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka and R.Mermelstein(1991) "Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats" Fundamental and Applied Toxicology 17,pp280-299

IARC (2008) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93"

NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"

ACGIH-TLV : Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices

OSHA-Z-Tables : US Department of Labor, 29CFR Part 1910 , Tables Z-1, Z-2, and Z-3

NTP (USA) : US Department of Health and Human Services National Toxicology Program Annual Report on Carcinogens
DFG-MAK/GER: DFG List of MAK and BAT Value

Symbol (EC) : EU Directive 67/548/EEC

91/155/ EEC : EU Directive 91/155/ EEC

1999/45/EC Annex V : EU Directive 1999/45/EC

76/769/EEC : EU Directive 76/769/EEC

EC 304/2003 : Regulation (EC) No 304/2003 of the European Parliament and of the Council of 28 January 2003 concerning the export and import of dangerous chemicals

WHMIS Controlled product : Canada Workplace Hazardous Information System

OELs-TWA (Australia) : Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 3008 (1995)]

Abbreviations :

OSHA PEL : PEL (Permissible Exposure Limit) under Occupational Safety and Health Act

ACGIH-TLV : TLV (Threshold Limit Values) under American Conference of Governmental Industrial Hygienists

DFG-MAK : MAK (Maximale Arbeitsplatz Konzentrationen) by Deutsche Forschungs Gemeinschaft

RoHS : Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment

TWA : Time Weighted Average

IARC : International Agency for Research on Cancer

NTP : National Toxicology Program

WHMIS : Workplace Hazardous Information System

NOHSC : National Occupational Health and Safety Commission Act 1985

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