



1. Product and Company Identification

Product Name **Cleaning Cartridge**

2. Composition/Information on Ingredients

Substance or Preparation

Preparation

Chemical Nature

Ingredients	Chemical Formula	CAS. No.	Contents (%)
Glycol	Confidential	Confidential	20-30
Glycerin	C3H8O3	56-81-5	<10
Surfactant	Confidential	Confidential	<3
Water	H2O	7732-18-5	55-75

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

Cadmium, Hexavalent Chromium, Mercury, Lead, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), SVHC (substances of very high concern: published by ECHA).

And if it contains any impurities, it does not exceed any of the thresholds of RoHS.

3. Hazards Identification

The Most Important Hazards

Adverse Human Health Effects

There are no significant hazards expected with intended use.

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

Contents follow toxicological information of clause 11.

Acute Oral Toxicity

Contents follow toxicological information of clause 11.

Acute Eye Irritation

Contents follow toxicological information of clause 11.

Acute Skin Irritation

Contents follow toxicological information of clause 11.

Sensitization

Contents follow toxicological information of clause 11.

Chronic Effect

Contents follow toxicological information of clause 11.

Carcinogenicity

Contents follow toxicological information of clause 11.

The Classification of The Chemical Product

This preparation is not classified as dangerous according to Directive 1999/45/EC.

4. First-Aid Measures

Inhalation

Remove from exposure into fresh air if symptoms are experienced. Seek medical advice.

Skin Contact

In case of contact with skin, please wash away with water or soapy water immediately.

Eye Contact

In case of contact with eyes, please wash with running water promptly. If necessary, seek medical advice.

Ingestion

Make him drink strong salt water, let him vomit. Seek medical advice.

Notes to a physician

Not applicable

5. Fire-Fighting Measures

Extinguishing Media

CO₂, dry chemicals, foam or water.

Extinguishing Media to Avoid

Not applicable

Specific Hazards

Not applicable

Specific Method

No special fire protecting method is required. Sprinkling or fire extinguishers can be used.

Protection of Fire-fighters

Wear gloves, glasses, a mask if necessary.

6. Accidental Release Measures

Personal Precautions

Take off contaminated clothing and launder or dry-clean before wear again.

Environment Precautions

Do not expose to sewers and watercourses.

Methods for Cleaning Up

If spilled, wipe up with paper or cloth.



7. Handling and Storage

Handling

Technical Measures/Precautions

Not applicable

Safe Handling Advice

Minimize skin contact.

Cleanse skin thoroughly after contact, before breaks and meals, and at the end of work periods.

Keep away from heat, flame or spark.

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)

The Image Formation of Printing Machine or Copier.

8. Exposure Controls/Personal Protection

Technical Measures

Use adequate ventilation. None required with intended use.

Control Parameters

USA OSHA PEL (TWA) : Not applicable

ACGIH TLV (TWA) : Not applicable

DFG MAK : Not available

Personal Protection

Respiratory Protections

None required in normal use.

Hand Protection

Use vinyl or rubber gloves if necessary.

Eye Protection

Put on goggles if necessary.

Skin and Body Protection

Wear chemical-resistant apron or other impervious clothing if necessary.

Hygiene Measures

Wash hands after handling.

9. Physical and Chemical Properties

Appearance

Physical State **Liquid**

:

Form **Liquid**

:

Colour **Colorless**

:

Odour **No odour**

:

Information

pH : **9.8-10.6** Measuring Temp (degrees centigrade) : **25**

Specific Temperatures/Temperature Ranges at Which Changes in Physical State Occur

Boiling Point (degrees Not available

centigrade) :

Melting Point (degrees Not applicable

centigrade) :

Decomposition Temperature (degrees Not applicable

centigrade) :

Flash Point (degrees centigrade) Not applicable

:

Explosion Properties (degrees centigrade) This product is considered a nonexplosive material

: under normal use.



Vapor Pressure (Pa) Not available Measuring Temp (degrees centigrade) : -
:
Vapor Not available
Density (AIR=1) :
Density (g/cm3) Not available Measuring Temp (degrees centigrade) : -
:
Solubility
Water Solubility (g/L) Soluble
:
not available Solubility - Measuring Temp (degrees centigrade) : -
(g/L) :
Octanol/Water Partition Coefficient
Not available
Other Information
Flammability Not applicable
:
Viscosity (Pa·s) Approx. 0.003 Measuring Temp (degrees centigrade) : 25
:
Volatile (%) 70-95
:

10. Stability and Reactivity

Stability

Stable

Hazardous Reaction

There is no significant hazardous reaction expected with intended use.

Conditions to Avoid

Not applicable in normal use.

Materials to Avoid

Not applicable in normal use.

Hazardous Decomposition Products

Decomposition products will not occur.

11. Toxicological Information

Acute Toxicity

Acute Oral Toxicity (LD50) :
Not available

Acute Dermal Toxicity :

Not available

Acute Inhalation Toxicity :

Not available

Local effects

Acute Skin Irritation(PII) :
Not available

Acute Eye Irritation :

Not available

Sensitization

Acute Allergenic Effects :

Not applicable (None of ingredients is listed on hazardous characteristics list of skin or inhalation sensitization.)

Specific Effects

Carcinogenicity :

This product does not contain the carcinogenic substances which are listed on NTP, IARC and OSHA.

Mutagenicity Not available (No data.)

:

Reproduction : Does not contain substances listed as hazardous to reproductive health.
Toxicity



12. Ecological Information

Mobility : No data are available on the adverse effect one environment.

Persistence/Degrability : Not available

Bioaccumulation : Not known in bioaccumulation.

Ecotoxicity

Acute Toxicity for Fish (LC50) : Not available

Acute Toxicity for Daphnia (EC50) : Not available

Algae Inhibition Test (IC50) : Not available

13. Disposal Consideration

General information:

Used product 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:

14. Transport Information

International Regulations

Land Transport

RID/ADR : Not available

DOT 49 CFR : Not applicable

ADNR : Not available

Sea Transport

IMDG Code : Not available

Air Transport

ICAO-TI/IATA-DGR : Not available

The UN Classification Number : Not applicable

Class : Not applicable

Specific Precautionary Transport Measures and conditions

Do not keep this over 35 degrees centigrade. ; Keep it in cool and dry storage and avoid direct sun for quality.

15. Regulatory Information

Regulations

EU Information

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

Symbols & Indications : 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
304/2003/EC

Not regulated

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 Title III

313 Reportable Ingredients : Not regulated

California Proposition 65 : Not regulated

Canada Information

WHMIS Controlled product : Not a controlled product



16. Other Information

NFPA Hazard Rating: National Fire Protection Agency (USA)

Health ; 1, Flammability ; 1, Reactivity ; 0

HMIS Rating : The National Paint and Coating Association (USA)

Health ; 1, Flammability ; 1, Reactivity ; 0

Literature References :

ANSI Z400.1-1993

ISO 11014-1

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, pp 280-299

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	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
REACH	(EC)No.1907/2006: Council Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals
SVHC	Substances of Very High Concern
ECHA	The European Chemicals Agency
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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