

MATERIAL SAFETY DATA SHEET

MSDS: 2007036010US
Date Prepared: September 3, 2007
Date Revised :
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ex-UV SP1 Black

Company Name:

Konica Minolta IJ Technologies, Inc.
Sakura-machi 1, Hino-shi, Tokyo 191-8511 Japan

Telephone Number:

TEL: +81-42-589-3708

FAX: +81-42-589-3868

Emergency Telephone Number:

CHEMTREC 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS#	wt. %
Cyclic ether compound A	Company confidential	40 - 70
Cyclic ether compound B	Company confidential	10 - 30
Cyclic ether compound C	Company confidential	5 - 20
Organic sulphur compound	Company confidential	1 - 5
Esters of alicyclic acid	Company confidential	1 - 5
Carbon Black	1333-86-4	1 - 5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

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*****  
* Black liquid. Slight aromatic odor. *  
* Inhalation of vapor or mist may cause irritation of nose and throat *  
* mucous membranes. *  
*****
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POTENTIAL HEALTH EFFECTS

Eye Effects : May cause eye and mucous membrane irritation.

Skin Effects : None currently known.

Ingestion Effects : None currently known.

Inhalation Effects: Inhalation of vapor or mist may cause irritation of nose and throat mucous membranes.

Chronic Effects/ Carcinogenicity:

Carbon black is possibly carcinogenic to humans. (IARC classification is Group 2B). This product contains a chemical known to the State of California to cause cancer.

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4. FIRST AID MEASURES

- Eye** : Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
- Skin** : Wash with water and mild soap.
- Ingestion** : Wash out mouth with water. Drink one or two glasses of water. Get medical attention. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
- Inhalation**: No exposure expected under normal conditions. Large amount of vapor or mist if inhaled, move victim to fresh air immediately. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

- Flash Point** : 291.2 F (Cyclic ether compound A)
- Method Used** : COC
- Flammable Limits** : Not available
- Autoignition Temperature** : Not available
- Flammability Classification**: IIIB
- Unusual Fire and Explosion Hazard**: May be flammable by excessive heating.
- Extinguishing Media**: Water spray, dry chemical, carbon dioxide, alcohol-resistant foam.
- Fire Fighting**: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Apply cooling water to sides of containers that are exposed to flames. Combat fire out of sheltered position.
- Hazardous Combustion Products**: Carbon monoxide, carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Spill and Leakage Procedures:

Large spill: Wear personal protective equipment(See Section 8). Ventilate closed spaces before entering. Eliminate all sources of ignition. Stop leak if you can do it without risk. Dike far ahead of large spill to assure containment. Absorb spill with inert material(e.g. dry sand or earth), then place in a chemical waste container.

Small spill: Wear personal protective equipment(See Section 8). Ventilate closed spaces before entering. Eliminate all sources of ignition. Stop leak if you can do it without risk. Absorb spill with inert material(e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Wear personal protective equipment (See Section 8). Use with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion:

No special precautionary measures should be required under normal use conditions.

Storage:

Keep container tightly closed. Store in a cool and dry place. Keep away from incompatible substances(See Section 10).

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:

INGREDIENTS	ACGIH TLV		
	TWA	STEL	OSHA PEL
Cyclic ether compound A	None established		None established
Cyclic ether compound B	None established		None established
Cyclic ether compound C	None established		None established
Organic sulphur compound	None established		None established
Esters of alicyclic acid	None established		None established
Carbon Black	3.5mg/m3		3.5mg/m3

Engineering Controls: Use process enclosures or local exhaust ventilation.

Respiratory Protection: Not required under normal conditions.

Skin Protection: Impervious gloves should be worn.

Eye Protection: Splash goggles should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Black liquid
Odor : Slight aromatic odor
pH : Not available.
Vapor Pressure : Not available.
Vapor Density : Not available.
Evaporation Rate: Not available.
Boiling Point : Not available.
Melting Point : Not applicable.
Solubility : Insoluble in water.
Specific Gravity: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable.

Incompatibility: Oxidizers.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

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11. TOXICOLOGICAL INFORMATION:

Product

Acute oral toxicity : LD50: >2000mg/kg[rat] (data of similar product)
Skin irritation : None[rabbit] (data of similar product)

Ingredients

Cyclic ether compound A

Acute oral toxicity : LD50: 2000~1000mg/kg[rat]
Subacute oral toxicity: 28-day repeated dose toxicity test[rat] NOEL male 40 mg/kg/day, female 200 mg/kg/day
Eye irritation : Moderate[rabbit]
Skin irritation : Mild P. I. I. =1[rabbit]
Skin sensitization : None 0%[guinea pig]
Mutagenicity : Ames test Negative, Chromosomal aberration test Positive, Micronucleus test Negative

Cyclic ether compound B

Acute oral toxicity : LD50: >2000mg/kg[rat]
Acute dermal toxicity : LD50: > 2000mg/kg[rat]
Subacute oral toxicity: 28-day repeated dose toxicity test[rat] NOAEL male 1000 mg/kg/day, female 1000 mg/kg/day
Eye irritation : Minimal[rabbit]
Skin irritation : Mild P. I. I. =0.16[rabbit]
Skin sensitization : none 0%[guinea pig]
Mutagenicity : Ames test Negative, Chromosomal aberration test Positive, Micronucleus test Negative

Cyclic ether compound C

Acute oral toxicity : LD50: >2000mg/kg[rat], LD50: >2500mg/kg[rat]
Acute dermal toxicity : LD50: >2000mg/kg[rat]
Subacute oral toxicity: 28-day repeated dose toxicity test[rat] NOEL male 100 mg/kg/day, female 100 mg/kg/day
Eye irritation : Mild[rabbit]
Skin irritation : Moderate P. I. I. =3.1[rabbit]
Skin sensitization : none[guinea pig]
Mutagenicity : Ames test Negative, Chromosomal aberration test Negative

Organic sulphur compound

Acute oral toxicity : LD50: >2000mg/kg[rat]
Acute dermal toxicity : LD50: >2000mg/kg[rat]
Subacute oral toxicity: 28-day repeated dose toxicity test[rat] NOEL male 150 mg/kg/day, female 150 mg/kg/day
Eye irritation : Corrosive[rabbit]
Skin irritation : None P. I. I. =0[rabbit]
Skin sensitization : none 0%[guinea pig]
Mutagenicity : Ames test Negative, Chromosomal aberration test Negative

Esters of alicyclic acid

Acute oral toxicity : LD50: 34900mg/kg[rat], LD50: 20700mg/kg[mouse]
Acute dermal toxicity : LD50: >20ml/kg[rabbit]
Eye irritation : Severe[rabbit]
Skin irritation : Mild[rabbit]
Mutagenicity : Ames test Negative, Chromosomal aberration test Negative

Carbon Black

Eye irritation : Mild[rabbit]
Carcinogenicity : This material is possibly carcinogenic to humans(IARC classification is Group2B).
Mutagenicity : Ames test Negative

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12. ECOLOGICAL INFORMATION:

Product

Fish acute toxicity : 96hrLL50 : 29.0mg/L [Oryzias latipes] (data of similar product)
Daphnia acute toxicity : 48hrEL50 : 16.3mg/L [Daphnia magna] (data of similar product)
Algae growth inhibition: ErC50 (0-72h) : 2.04mg/L [Pseudokirchneriella subcapitata], EbC50 (0-72h) : 1.20mg/L [Pseudokirchneriella subcapitata] (data of similar product)

Ingredients

Cyclic ether compound A

Biodegradation : BOD=0 (28-Days Biodegradation)
Bioaccumulation : Negligible
Fish acute toxicity : 96hrLC50:80mg/l [Rainbow trout]
Daphnia acute toxicity : 48hrNOEC:100mg/l [Daphnia magna]
Algae growth inhibition: NOEC (growth) : >100mg/l

Cyclic ether compound B

Biodegradation : Not biodegradable
Fish acute toxicity : 96hrLC50: 12mg/l [Carp]
Daphnia acute toxicity : 48hrEC50: >64mg/l [Daphnia magna]
Algae growth inhibition: EbC50 (0-96hr) : >70mg/l [Selenastrum capricornutum]
ErC50 (24-96hr) : >70mg/l [Selenastrum capricornutum]

Octanol/water partition coefficient: 2.9, 3.0, 3.1 (major components) 2.900

Cyclic ether compound C

Biodegradation : BOD=0 (28-Days Biodegradation)
Bioaccumulation : Bioconcentration Factor=127~347 (conc. 0.04mg/l)
Fish acute toxicity : 96hrLC50:2.1mg/l [Rainbow trout]
Daphnia acute toxicity : 48hrNOEC:1.6mg/l [Daphnia magna]
Algae growth inhibition: 72hrEC50:2.0mg/l

Organic sulphur compound

Biodegradation : Not biodegradable
Fish acute toxicity : 96hrLC50: >10mg/l [Carp]
Daphnia acute toxicity : 48hrEC50: 1.3mg/l [Daphnia magna]
Algae growth inhibition: EbC50 (0-96hr) : 0.055mg/l [Selenastrum capricornutum]
ErC50 (24-96hr) : 0.069mg/l [Selenastrum capricornutum]

Octanol/water partition coefficient: 0.610

13. DISPOSAL CONSIDERATIONS:

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

14. TRANSPORT INFORMATION:

DOT/TDG CLASS: Not regulated.

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15. REGULATORY INFORMATION:

OSHA Hazard Communication Standard, 29CFR 1910.1200:

This product is NOT considered hazardous under this standard.

CERCLA (Comprehensive Environmental Response Compensation and Liability Act):

None.

SARA Title III (Superfund Amendments and Reauthorization Act)

302 Extreme Hazardous Substance: None.

311/312 Hazard Categories: None.

313 Reportable Ingredients: None.

TSCA (Toxic Substance Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.

16. OTHER INFORMATION:

HMIS Hazard Rating Health:2, Flammability:1, Reactivity:0

The above information is believed to be accurate and represents the best information currently available to our company. However, our company make no warranty with respect to such information, and our company assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.