C-INK

Revised : July 2, 2019

Prepared : July 2, 2019

SAFETY DATA SHEET

1. Identification

Product name : OniCoat OC-01108A

Supplier's details

Company name : C-INK CO., LTD.

Address : Akahama 550, Soja, Okayama, 719-1121 JAPAN

TEL・FAX : +81-866-92-5111

2. Hazards identification

GHS classification : Actue Toxixity (Oral) Category 5

Chronic Aquatic hazard Category 4

Symbol : Unnecessary

Signal word : Unnecessary

Hazard statement : May be harmful if swallowed.

Harmful to aquatic life with long lasting effects.

Precautionary Statement

Safety Precautions : Avoid release to environment.

Immediate Measures : Call a POISON CENTER or doctor / physician if you feel unwell.

Disposal : Dispose of contents / container in accordance with local / regional / national / international regulation.

3. Composition/information on ingredients

Chemical Identity : Mixture

Components :	Contents (mass%)	CAS No.
Hydrofluoroether	More than 90	Nondisclosure
Fluoroacrylatte	Less than 10	Nondisclosure
Total	100	

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4. First aids measures

If Swallowed : Rinse mouth. Get medical advice / attention if you feel unwell.

If inhaled : Remove victim to fresh air and keep at rest in a position.
Get medical advice / attention if you feel unwell.

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If on Skin : Gently wash with plenty of soap and water.
Get medical advice / attention if you feel unwell.

If in Eyes : Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
If eye irritation persists : Get medical advice / attention.

Anticipated Symptoms : See Section 11 of this SDS.

Acute and Delayed Special Notes to physician : No information.

5. Fire-fighting measures

Extinguish Media : Class-B extinguish media (powder, CO_2, etc.)

Extinguish Media which Must not Use : Nothing

Specific Hazards : May produce irritation, toxicity or corrosion gasses by fire.

Specific Extinguish Method : Nothing

Protective Equipment for Fire-Fighters : Exposure to extreme heat can give rise to thermal decomposition.
Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Special Precautions : No unusual fire or explosion hazards are anticipated. No unusual effects are anticipated during fire extinguishing operations. Avoid breathing the products and substances that may result from the thermal decomposition of the product or the other substances in the fire zone. Keep containers cool with water spray when exposed to fire to avoid rupture.

6. Accidental release measures

Personal Precautions

Protective Equipment and Emergency Procedures : Wear suitable protective equipment (see section 8 of the SDS) to prevent any contamination of skin, eyes, and personal clothing.

Environmental Precautions

Method for Containment : Prevent further leakage or spillage if safe to do so.
Use sand, perlite or vermiculite as an absorbent for large spills of this material.

Method for Clean UP : Sweep up or gather material and place in appropriate container for disposal.

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7. Handling and storage

Handling : For industrial or professional use only.

Contents may be under pressure, open carefully.

Avoid skin contact with hot material.

No smoking: Smoking while using this product can result in contamination of the tobacco and / or smoke and lead to the formation of the hazardous decomposition products mentioned in the Reactivity Data section of this SDS.

Avoid exposing material to extreme conditions of heat, i.e., above 150 deg. C (welding, open flame, misuse or equipment failure).

Avoid exceeding a watt density of 50 watts / $inch^2$ from a heater surface.

Continuous exposure to 150 deg. C results in a very slight decomposition of this product and, therefore, is a very conservative use temperature threshold.

Do not breathe thermal decomposition products.

Storage : Keep container in well-ventilated area.

Keep container tightly closed. Store away from heat.

Store away from strong bases.

8. Exposure controls/personal protection

Administrative Levels : Non-setting

Threshold Limit : No data

Facilities : Non established.

Personal Protective Equipment

Respiratory Protection : Under normal use condition, airborne exposures are not expected to be significant enough to require respiratory protection.

During heating, avoid breathing of vapors, mists or spray.

If thermal degradation products are expected, use full face supplied air respirator.

Eye Protection : As a good industrial hygiene practice, safety glasses with side shields is recommended.

Hand Protection : Under normal use condition, protection is not necessary.

Skin Protection : Gloves are not required when product is uncontaminated and at room temperature.

Avoid skin contact with extremely cold or hot product.

Wear appropriate gloves when handling this product to protect skin from low or high temperatures.

If the product becomes contaminated during use, select and use gloves and / or protective clothing to prevent skin contact based on the results of an exposure assessment.

Consult with your glove and /or protective clothing manufacture for selection of appropriate.

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9. Physical and chemical properties

Appearance, etc. : Clear colorless liquid, Faint odor.

Boiling point : Approx. 80 deg. C

Melting Point / Freezing Point : Approx. −140 deg. C

Solubility : Insoluble in water

Flash point (closed-cup) : None.

pH : Not applicable.

Auto-Ignition Temperature : 375 deg. C

Upper / Lower flammability or Explosive Limits : 210-1,070 g/m^3

Density : Approx. 1.4 g/cm^3

10. Stability and reactivity

Stability : Stable under recommended storage conditions and normal use condition.

Possibility of Hazardous Reaction : Nothing

Conditions to Avoid : High temperature

Substances to be avoided : Strong bases

Poisonous decomposition products : Reference “Toxicology information”

Hazardous Decomposition Products : Decomposes with heat.

Above 280 deg. C : Fluorine resin monomer, CF2O

Above 300 deg. C : Perfluoroisobutylene

Above 450 deg. C : Hydrogen fluoride, etc.

11. Toxicology information

Acute Toxicity : Oral LD_{50} > 2,000mg/kg (rats)

Dermal Not available

Inhalation(vapors) LC_{50} > 989mg/L (rats)

Inhalation(mists) Not available

12. Ecological information

Aquatic Toxicity : Fathead Minnow 96-hours LC_{50} > 750 mg/L

Global Warming Potential : 50 (100y)

Ozone Depletion Hazard : 0

13. Disposal conditions

Reclaim if feasible. As a disposal alternative, incinerate in an industrial or commercial facility in the presence of a combustible material. Combustion products will include HF. Facility must be capable of handling halogenated materials.

14. Transport information

International regulations

Maritime Regulations : Follow the provisions of IMDG/IMO. Not dangerous Goods.

Aerial Regulations : Follow the provisions of ICAO/IATA. Not dangerous Goods.

15. Regulatory information

There is not the matter which should mention specially.

Please be based on the law of each country.

16. Other information

Reference : JIS Z 7252 : 2014
JIS Z 7253 : 2012
Japan Society for Occupational Hearth (2010)
ACGIH (2013)
CLP Regulation

Remarks : Assessment of danger and harmfulness is not always satisfactory, an so utmost care should be exercised for handling.

This Data Sheet is prepared based on JIS Z 7253 : 2012 and intended to provide the optimum information and updated data for adequately using and handling the product under proper conditions. It is no guarantee of the noted data and assessment,