



SAFETY DATA SHEET

Prepared in accordance with ISO 11014-1/ ANSI standard Z400.1-2004/ JIS Revision date: 30-Jun-2015
Z 7253:2012

According to JIS Z 7253: 2012, a Safety Data Sheet (SDS) must be provided for hazardous substances or mixtures. This product does not meet the classification criteria according to this standard. Therefore, such document is outside the scope of the standard and the requirements for each section do not apply.

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

Product Identifier

Product name: CAB-O-JET® 450C Cyan Colorant

Product Code: COJ450C

Other means of identification

Synonyms: Modified Pigment Dispersion

Registration number(s) No information available

Recommended use of the chemical and restrictions on use

Recommended use: Printing Inks

Restrictions on use: Not Applicable

Details of the supplier of the safety data sheet

Cabot Corporation
157 Concord Road
Billerica, MA 01821
UNITED STATES
Tel: 1-978-663-3455
Fax: 1-978-670-6955

Cabot Corporation
Inkjet Colorants Division
50 Rogers Road
Haverhill, MA 01835
UNITED STATES
Tel: 1-978-556-8400
Fax: 1-978-556-0976

Emergency Telephone Number: CHEMTREC Japan (Tokyo): 03-4520-9637
International CHEMTREC: +1 703-741-5970 or +1-703-527-3887
CHEMTREC US 1-800-424-9300 or +1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label Elements:

None

Hazards not otherwise classified (HNOC)

Principle Routes of Exposure:	Skin, Eyes
Eye Contact:	May cause irritation. Avoid eye contact.
Skin Contact:	May cause irritation. Avoid skin contact.
Inhalation:	Dust from dried product, aerosols and/or mist may be irritating to respiratory tract. Provide appropriate local exhaust ventilation at machinery and at places where dust from dried product, aerosols and/or mist can be generated. See also Section 8.
Ingestion:	Adverse health effects are not expected. See Section 11.
Carcinogenicity:	Does not contain any substances listed by IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), OSHA (Occupational Safety and Health Administration), ACGIH (American Conference of Governmental Industrial Hygienists) or EU (European Union).
Target Organ Effects:	None under normal use
Medical Conditions Aggravated by Exposure:	None under normal use
Potential Environmental Effects:	Not expected to be harmful to the environment. However, product is dispersible in water and release to the environment should be avoided.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Modified Pigment Dispersion.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

Chemical name	CAS No	weight-%	ENCS - Japan Existing and New Chemical Substances	ISHL No	Japan GHS Classification
Water	7732-18-5	84-86	-	-	-
Modified Pigment	NOT ASSIGNED	14-16	-	-	No data available

4. FIRST AID MEASURESFIRST AID MEASURES

Skin Contact	Wash thoroughly with soap and water. Seek medical attention if redness, swelling, itching, or burning occurs.
Eye contact	Flush eyes immediately with large amounts of water for 15 minutes. Seek medical attention if redness, swelling, itching, burning or visual disturbances occur.

Inhalation If cough, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures.

Ingestion Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms: Product is not classified as hazardous. The most important known symptoms and effects are described in Section 2 and/or in Section 11.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Product is not classified as hazardous. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media:

No information available.

Specific hazards arising from the chemical:

No information available.

Hazardous combustion products:

Carbon monoxide (CO). Carbon dioxide (CO₂). Oxides of sulfur. Nitrogen oxides (NO_x). Phosphorus oxides.

Protective equipment and precautions for firefighters:

In the event of fire, wear self-contained breathing apparatus. Wear suitable protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Avoid contact with skin, eyes or clothing. Avoid the formation of dust from dried product, aerosols and/or mists. Ensure adequate ventilation.

Environmental Precautions:

Environmental Precautions: Avoid release to the environment. Dispersible in water. Local authorities should be advised if spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. See Section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Avoid contact with skin and eyes. Avoid the formation of dust from dried product, aerosols and/or mists. Provide appropriate local exhaust ventilation at machinery and at places where dust from dried product, aerosols and/or mist can be generated. In case of insufficient ventilation, wear suitable respiratory protection equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions: DO NOT FREEZE. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Do not store together with strong oxidizing agents.

Incompatible materials: Strong oxidizers such as chlorates, bromates, and nitrates.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines: .

There are no exposure limits identified for this product.

Engineering Controls: Ensure adequate ventilation to minimize exposures. Provide appropriate local exhaust ventilation at machinery and at places where dust from dried product, aerosol and/or mist can be generated.

Personal protective equipment [PPE]

Respiratory Protection: Approved respirator may be necessary if local exhaust ventilation is not adequate.

Hand Protection: Wear protective gloves to prevent soiling of hands.

Eye/face Protection: Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Skin and Body Protection: Wear suitable protective clothing. Wash clothing daily. Work clothing should not be allowed out of the workplace.

Other: Handle in accordance with good industrial hygiene and safety practice. Emergency eyewash and safety shower should be located nearby.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Odor:	None
Appearance:	Colored liquid	Odor threshold:	Not Applicable
Color:	blue		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH:	8.5-10.5	
Melting point/freezing point:		No information available
Boiling point / boiling range:		No information available
Evaporation Rate:		No information available
Vapor pressure:		No information available
Vapor Density:		No information available
Density:	1.0-1.2 g/cm3	@ 20 °C

Bulk Density:	No information available
Specific Gravity at 20°C:	No information available
Water solubility:	Insoluble but readily dispersible
Solubility(ies):	No information available
Partition Coefficient (n-octanol/water):	< 1.1 mg/l @ 20 °C
Decomposition temperature:	No information available
Viscosity:	1.0-3.5 cP
Kinematic viscosity:	No information available
Dynamic viscosity:	No information available
Oxidizing Properties:	Not Applicable
Softening point:	No information available
VOC content (%):	Not Applicable
% Volatile (by Volume):	No information available
% Volatile (by Weight):	No information available
Surface Tension:	No information available
Explosive properties:	Not Applicable
Flash Point:	Not Applicable
Flammability (solid, gas):	No information available
Flammability Limit in Air:	No information available
Explosion Limits in Air - Upper (g/m³):	No information available
Explosion Limits in Air - Lower (g/m³):	No information available
Autoignition Temperature:	No information available
Minimum Ignition Temperature:	No information available
Minimum Ignition Energy:	No information available
Ignition Energy:	No information available
Maximum Absolute Explosion Pressure:	No information available
Maximum Rate of Pressure Rise:	No information available
Burn Velocity:	No information available
Kst Value:	No information available
Dust Explosion Classification:	No information available

10. STABILITY AND REACTIVITY

Reactivity:	May react exothermically upon contact with strong oxidizers.
Stability:	Stable.
Explosion data	See also Section 9.
Sensitivity to Mechanical Impact:	None.
Sensitivity to Static Discharge:	None.
Possibility of hazardous reactions:	None under normal processing.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	None known.
Incompatible materials:	Strong oxidizers such as chlorates, bromates, and nitrates.

Hazardous decomposition products: Carbon monoxide (CO). Carbon dioxide (CO₂). Sulfur oxides. Nitrogen oxides (NO_x). Phosphorus oxides.

11. TOXICOLOGICAL INFORMATION

Information given is based on data on the components and the toxicology of similar products.

Acute toxicity

Oral LD50: LD50/oral/rat = > 2000 mg/kg.

Inhalation LC50: Due to the product's physical characteristics, no suitable testing procedure is available

Dermal LD50: No data are available on the product itself.

Skin corrosion/irritation: Rabbit
Primary irritation index = 0.0
Non-irritating

Serious eye damage/eye irritation: Rabbit. Maximum mean score 2.0 @ 1 hr. Slight irritation.

Sensitization: No data are available on the product itself.

Germ Cell Mutagenicity Not mutagenic in Ames test.

Subchronic toxicity: No data are available on the product itself

Chronic Toxicity: No data are available on the product itself.

Carcinogenicity: No data are available on the product itself. Does not contain any substances listed by IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), OSHA (Occupational Safety and Health Administration), ACGIH (American Conference of Governmental Industrial Hygienists) or EU (European Union).

Reproductive Toxicity: No data are available on the product itself.

STOT - single exposure: No data are available on the product itself.

STOT - repeated exposure: No data are available on the product itself.

Aspiration Hazard: No data are available on the product itself.

12. ECOLOGICAL INFORMATION

Information given is based on data on the components and the toxicology of similar products.

Aquatic Toxicity: No data are available on the product itself

ENVIRONMENTAL FATE

Persistence and degradability Not expected due to physicochemical properties of the substance.

Bioaccumulation Not expected due to physicochemical properties of the substance.

Mobility: Not soluble in water, but highly dispersible.

Distribution to Environmental Compartments: Dispersible.

Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disclaimer: Information in this section pertains to the product as shipped in its intended composition as described in Section 3 of this MSDS. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate. State/provincial and local regulations may be different from federal regulations.

Disposal considerations: Dispose in accordance with applicable legislations. When selecting a disposal alternative, landfill is not recommended due to the water dispersible characteristics of this material. Same consideration should be given to the disposal of empty containers. Reuse is not recommended.

14. TRANSPORT INFORMATION

Japanese Regulations

Shipping Safety Law: Not determined

Not classified as dangerous in the meaning of transport regulations.

DOT

UN/ID no	Not regulated
Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated

ICAO (air)

UN/ID no	Not regulated
Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated

IATA

UN/ID no	Not regulated
Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated

IMDG

UN/ID no	Not regulated
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Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated

RID

UN/ID no	Not regulated
Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated

ADR

UN/ID no	Not regulated
Proper Shipping Name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated

15. REGULATORY INFORMATION

Japanese Regulations

Industrial Safety & Health Law (ISHL) Article 57-2, Operation 18-2 table 9, notifiable substances of name etc. (378 Copper and Notifiable Substances: its compound).

Monitoring (Designated) Chemical Substances: Not regulated.

Fire Service Law: Not regulated.

Poisonous and Deleterious Substances Control Law: Not regulated.

International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory	Complies
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List	Does not comply
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances	Complies
ENCS - Japan Existing and New Chemical Substances	Complies
IECSC - China Inventory of Existing Chemical Substances	Complies
KECL - Korean Existing and Evaluated Chemical Substances	Complies
PICCS - Philippines Inventory of Chemicals and Chemical Substances	Does not comply
AICS - Australian Inventory of Chemical Substances	Complies
NZIoC - New Zealand Inventory of Chemicals	Does not comply
TCSI - Taiwan Chemical Substance Inventory	Complies

Note: The chemicals in inkjet and toner cartridges may not be subject to notification when imported as finished cartridges in the following countries under an "article" exemption: Canada (but not the Province of Ontario), Japan and New Zealand. Please contact your Cabot sales representative for more information.

16. OTHER INFORMATION

HMIS Rating HMIS Index: * - chronic, 0 - minimal, 1 - slight, 2 - moderate, 3 - serious, 4 - severe

Health Hazards: 1

Flammability: 0

Physical Hazards: 0

Contacts:

Cabot Specialty Chemicals, Inc.
Sumitomo Shiba-Daimon Bldg. 3F
2-5-5 Shiba Daimon, Minato-ku
Tokyo 105-0012 JAPAN
Tel: 81-3-6820-0255
Fax: 81-3-5425-4500

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Prepared by:

Cabot Corporation - Safety, Health and Environmental Affairs

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End of Safety Data Sheet