

**#8 Orient Chemical Industries Co. Ltd. Materials Safety Data Sheet -  
MSDS BJBK817**

Jul-31-97 13:42 Colours

(302)427-1204

P.02

1996年 4月 20日 (4140分) ZENECA KK OSAKA-1

NNo 1785 PP 6/10

RESPT. 31013

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## \*\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*\*

LATEST REVISION DATE: ... 31/Jan./96  
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 EMERGENCY PHONE NUMBER: (0720) 22-4721

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SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: ... 14085022  
 PRODUCT NAME: ... Bonjet Black #17  
 GENERAL USE: ... Colour for printing ink  
 CHEMICAL NAME: ... Black azo dyes  
 CAS No.: ... [163879-69-4]  
 MANUFACTURER'S NAME: ... Orient Chemical Industries Co.Ltd.  
 COMPANY ADDRESS: ... 8-1 Sanra-Miyoshimachi  
 Neyakawa Shi. Osaka Japan 572  
 COMPANY PHONE NUMBER: ... (0720) 22-4721  
 INFORMATION TEL.: ... (0720) 22-4721

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME(S)	CAS No.	OSHA PEL	ACGIH TLV	% WT
Black azo dyestuff (Benzoic acid,3-amino, diazotized,coupled with 8-amino-4-hydroxy-2-naphthalenesulfonic acid,monosodium salt,diazotized(3-aminophenyl) phosphonic acid,and diazotized 2,5-diethoxybenzamine)	[163879-69-4]	Not established		100% as a reaction product.

SECTION 3 HAZARDS IDENTIFICATIONEMERGENCY OVERVIEW

Black powder with slight special odor.

Eye irritant.Strong sensitizer.Harmful by prolonged exposure.Therefore should be avoided contact with skin and eye.

POTENTIAL HEALTH EFFECTS

EYE: Moderate irritant. (Risk of serious damage to eye.)

SKIN: Mild irritant to rabbit skin,but is classified as a severe eye irritant on the basis of a 3-rabbit study.

SENSITISATION: Extreme sensitizer to guinea pig skin.

INGESTION: LD<sub>50</sub>: >2,000mg/kg

INHALATION: LC<sub>50</sub>: No data is available.

MUTAGENICITY INFORMATION: Non-mutagenic under the bacterial mutagenicity testing.

CHROMOSOME ABERATION: Negative.

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SECTION 4 FIRST AID MEASURES

**SKIN:** Remove all contaminated clothing, shoes and socks from the affected areas as quickly as possible. Wash affected areas under tepid running water using a mild soap. Get immediate medical attention. Launder contaminated clothing before reuse.

**EYES:** Gently rinse the affected eyes, including under the eyelids, with clean water for at least 15 minutes. Remove contact lenses if easily possible. Remove all chemicals from contact with the victim's eyes as quickly as possible. A delay of only seconds may increase the injury. And refer for medical attention.

**INGESTION:** Rinse mouth with water. Give the victim one or two glasses of milk or water, and induce vomiting. And refer for medical attention. Do not make an unconscious victim vomit.

**INHALATION:** Remove the victim from the contamination immediately to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

SECTION 5 FIRE FIGHTING MEASURES

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO<sub>2</sub>, NO<sub>2</sub>, SO<sub>2</sub>.

**EXTINGUISHING MEDIA:** Water fog, dry chemical, foam or CO<sub>2</sub>.

**SPECIAL FIRE FIGHTING PROCEDURES:** This product is not highly flammable. In case of fire, firefighters should wear proper protective equipment.

**UNUSUAL FIRE & EXPLOSION HAZARDS:** This product has explosive properties when subjected to thermal strain, but not to shock and friction. Fight fire from maximum distance.

SECTION 6 ACCIDENTAL RELEASE MEASURES

**SPILL OR LEAK PROCEDURES:** Eliminate all sources of ignition. Avoid raising dust. Wear proper protective equipment, sweep up carefully, place closed containers for disposal. Clean contaminated area with water.

**WASTE DISPOSAL METHOD:** Incinerate in a RCRA licensed facility. Do not discharge into waste-ways or sewer systems without proper authority. Dried substance is not highly flammable.

**CONTAINER DISPOSAL:** Empty containers may be landfilled at a licensed facility. Recommend crushing or other means to prevent unauthorized reuse. Other containers must be disposed of in a RCRA licensed facility.

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## SECTION 7 HANDLING AND STORAGE

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**HANDLING:**

Use only in the well-ventilated areas. Make available in the work area emergency shower and eye wash. Avoid contact with skin or eyes. Not highly flammable.

**STORAGE:**

Inside storage should be in a cool location, away from all possible sources of ignition. Keep away from heat, steam pipe or sunlight. Keep the container tightly closed.

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## SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

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**CONTROL PARAMETER:** Not established in the ACGIH and OSHA.

**ENGINEERING CONTROLS:** Use with local exhaust ventilation.

**PERSONAL PROTECTIVE EQUIPMENT:**

**RESPIRATORY PROTECTION** ..... Use an approved dust respirator.  
**VENTILATION** ..... Local exhaust are required.  
**PROTECTIVE CLOTHING** ..... Gloves, coveralls, apron, boots - as necessary to prevent skin contact.  
**EYE PROTECTION** ..... Chemical goggles.  
**OTHER PROTECTIONS** ..... Shower after handling this product. Clean clothing should be worn daily. Eyewash fountains should be easily accessible.

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## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE, PHYSICAL STATE, FORM, COLOUR, ODOUR:** Black powder with slight special odor.

**MELTING POINT** ..... >360°C  
**BOILING POINT ( 760 mmHg )** ..... >368°C  
**VAPOR PRESSURE ( mmHg at 20°C )** .....  $1.4 \times 10^{-7}$  Pa at 25°C  
**VAPOR DENSITY ( AIR = 1 )** ..... 1.4823 at 20°C  
**PERCENT VOLATILE BY WEIGHT ( % )** ..... 3%  
**SPECIFIC GRAVITY** ..... g/cm<sup>3</sup>  
**SOLUBILITY IN WATER** ..... 34.4 and 180mg/l for the two component.  
**EVAPORATION RATE (BuAc = 1 )** ..... N/A

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## SECTION 10 PHYSICAL HAZARD(STABILITY AND REACTIVITY)

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**FLASH POINT** ..... N/A°C  
**AUTOFLAMMABILITY** ..... 274°C  
**FLAMMABILITY** ..... Not highly flammable.  
**SPONTANEOUS COMBUSTIBILITY** ..... N/A  
**EXPLOSION** ..... This product has been determined to have explosive properties when subjected to thermal strain and not to have explosive properties when subjected to shock or friction.  
**REACTIVITY WITH WATER** ..... None

Not regulated but will  
 ignite at temp above 274°C

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SELF-REACTIVITY..... None  
 PRODUCT STABILITY ..... Stable in the ambient temperature.  
 CONDITION TO AVOID ..... Avoid all sources of ignition - Heat, sparks, open flame.  
 CHEMICAL INCOMPATIBILITY ..... Not established  
 HAZARDOUS DECOMPOSITION PRODUCTS .. CO, CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>x</sub>  
 HAZARDOUS POLYMERIZATION ..... Will not occur.

**SECTION 11****TOXICOLOGICAL INFORMATION**

**INGESTION:** Acute oral toxicity LD<sub>50</sub>: Greater than 2,000mg/kg in rat.  
 Sub-acute oral toxicity: It is classified as harmful by prolonged oral exposure. Produce significant adverse health effects at 150mg/kg/d.

**SKIN:** Acute dermal toxicity LD<sub>50</sub>: Greater than 2,000mg/kg in rabbit skin.

**IRRITATION: SKIN:** This material produce a primary irritation index of 0.3 and classified as a MILD IRRITANT to rabbit skin according to the Draize classification scheme.  
 No corrosive effects were noted.

**EYE:** This material produce a maximum group mean score in the range of 25.3-108.0 and was classified as at least MODERATE IRRITANT (Class 3 in a 1 to 8 scale) to the rabbit eye according to a modified Ray and Calandra classification system.  
 In the EU labelling symbol "Xi" and risk phrase R-41 (Risk of serious damage to eyes.) are required.

**SENSITISATION:** This material produce a 90%(9/10) sensitisation rate and was classified as an extreme sensitisation to guinea pig skin.  
 In the EU labelling symbol "Xi" and R-43 (May cause sensitisation by contact.) are required.

**MUTAGENIC EFFECTS:** Negative in the AMES TEST  
**CHROMOSOME ABERATION:** Negative  
**CARCINOGENICITY:** N/A

**SECTION 12****ECOLOGICAL INFORMATION**

**BIODEGRADATION:** Not readily biodegradable.  
**BIOACCUMULATION:** Not available  
**FISH TOXICITY (Rainbow trout):** 96hr. EC<sub>50</sub>: Greater than 100mg/l as solid.  
**ACUTE TOXICITY TO DAPHNIA-MAGNA:** 48hr. EC<sub>50</sub>: Greater than 100mg/l as solid.  
**ACTIVATED SLUDGE RESPIRATION INHIBITION:** 3hr. EC<sub>50</sub>: 1800mg/l as solid.  
**ALGAL GROWTH INHIBITION:** 72hr. E<sub>50</sub> value : 3.0mg/l, E<sub>10</sub> (24hr. ~48hr.) value : 0.4mg/l.

**SECTION 13****DISPOSAL CONSIDERATION**

Burn in a chemical incinerator equipped with an afterburner and scrubber.  
 Do not flush into the sewer.

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**SECTION 14** TRANSPORTATION INFORMATION

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DOT LABEL ..... Not known.  
 UN No. .... Not established.  
 IMDG CODE ..... Not established.  
 HAZARD CLASS ..... Not known.  
 PACKAGING GROUP ..... Not known.  
 EC RISK/SAFETY STATEMENTS ..... "E" (Explosive), "Xi" (Irritant), "Xn" (Harmful)  
 R-3 (Extreme risk of explosion-by shock, friction, or other sources  
 of ignition )  
 R-41 (Risk of serious damage to eyes.)  
 R-43 (May cause sensitisation by skin contact.)  
 S-24 ( Avoid contact with skin )  
 S-26 (In case of contact with eyes, rinse immediately with plenty of  
 water and seek medical advice.)  
 S-35 (This material and its container must be disposed of in a safe  
 way.)  
 S-36/37/39 ( Wear suitable protective gloves and eye/face protection.)

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**SECTION 15** REGULATORY INFORMATION

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Follow all regulation in your country.

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**SECTION 16** OTHER INFORMATION

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None

To the best of our knowledge, the information contained here in is accurate. However, ORIENT CHEMICAL INDUSTRIES LTD. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any materials is the sole responsibility of the user. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.