

MATERIAL SAFETY DATA SHEET

IDENTIFICATION OF THE SUBSTANCE / PREPARATION, REVISION NUMBER AND DATE

Product Name : Solvent based Black Ink
Product Code : BSF - Black
Revision No : D
Date : 08/01/2012

COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS (nl - not listed in CHIP)

Chemical Name % CAS Number EEC No Hazard Symbol Risk
Cyclohexanone 20 - 30 108-94-1 200-631-1 St Andrews Cross R10, R20
Metal Complex Dye > 10 - - N R51/53
R10 = Flammable; R20 = Harmful by inhalation; ; R51/53 = Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
The remaining ingredients, do not present a health hazard within the meaning of the EC/ CHIP2 regulations.

HAZARDOUS IDENTIFICATION

Classification (CHIP) : Flammable and harmful
Main Health Hazards : Not expected to present any hazards to health under normal conditions of anticipated use.

FIRST AID

Inhalation : Move casualty to fresh air immediately. If there is respiratory distress, give oxygen and seek medical attention.
Skin Contact : Wash affected area with soap and water
Eye Contact : Rinse immediately with copious amounts of water. If redness or soreness persists, seek medical advice.
Ingestion : DO NOT induce vomiting. Encourage the casualty to drink water to dilute in stomach. Avoid alcoholic drinks as this will enhance toxic effects. Seek medical advice.
Do not use :

FIRE FIGHTING MEASURES

Flammability : Flammable
Combustion products : Oxides of Carbon
Extinguishing media : Water spray, dry powder, carbon dioxide or vaporising liquids.
Do not use : Water Jet.
Measures :

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ACCIDENTAL RELEASE MEASURE

Shut off all sources of ignition and wear protective clothing. Mop or soak up small spills onto paper. Absorb large spills with inert material such as sand and remove to a safe place for disposal. Flush contaminated area with plenty of water.

HANDLING AND STORAGE

Handling : Avoid contact with skin and eyes. Avoid inhaling vapour.
Fire Prevention : Keep away from all sources of ignition. No smoking
Storage : Normal cool warehouse conditions. Keep in closed container.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection : Keep work area well ventilated.
Eye and Skin protection : Wear safety glasses and gloves if splashing is likely.

EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)

OCCUPATIONAL EXPOSURE LIMITS :

Substance listed Long term (8Hrs) Short term (10min)
in EH40/92 ppm mg/m³ ppm mg/m³
Cyclohexanone 25 100 100 400

PHYSICAL AND CHEMICAL PROPERTIES (n.d.a = No data available)

Form : Black liquid. pH : Not applicable Boiling Point : ~ 154°C
Flashpoint : ~53°C Melting Point : n.d.a.
Vapour Pressure : ~ 2.2 mm Hg Vapour Density : ~ 3.8 (Air = 1)
Solubility in Water : Partially soluble in water Density : ~1.0 gm/cm³
Autoignition Point : 405°C Explosive Limits: Lower : 1.8%. upper : 12.0%

STABILITY AND REACTIVITY

Chemical reactivity : None known.
Decomposition products : None.
Materials / conditions to avoid : Avoid all sources of heat and ignition.

TOXICOLOGICAL INFORMATION

Acute toxicity :
Cyclohexanone: LD50 /oral/rat 1620mg/Kg

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ECOLOGICAL INFORMATION

Cyclohexanone: Practically non-toxic to living resources LC50(96hr.) = 100-1000mg/l; No evidence of bioaccumulation or tainting of seafood

DISPOSAL CONSIDERATIONS

Consult Local Authorities for approved method of disposal.

TRANSPORT REGULATIONS

Proper shipping name : Cyclohexanone Flammable Packing group : III
UN Number : UN1915 IMDG class : 3.2
IMDG code : RID/ADR : ADR Item (5b)
ICAO/IATA class : 3 Hazard warning sign : Flammable Liquid
Marine Pollutant :

REGULATORY INFORMATION

CHIP labelling - Symbol : Hazard : Flammable & Harmful Contains, Cyclohexanone
Safety phrases : S16, S23
Other suggested labelling : R10 = Flammable ; R20 = Harmful by inhalation;
S16 = Keep away from sources of ignition - no smoking; S23 = Do not breathe fumes

OTHER INFORMATION

This safety data sheet has been updated to comply with CHIP regulations. The information is based solely on the data provided by the suppliers of the materials used and/or recognised technical sources, not on the mixture itself and is believed to be correct as of this date. No warranty is expressed or implied regarding the accuracy of the data.

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