

KATUN[®]**SAFETY DATA SHEET****1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING**

Product Name : HP DJ 1050c BLK 350ML Pigment

Product # : 52982

Material Uses : Ink for use in an ink jet process.

Supplier of the SDS : Katun Corporation
10951 Bush Lake Rd
Minneapolis, MN 55438
Tel: 952-941-9505

Emergency Phone: (Chemtrec) (800) 424-9300

2. HAZARD IDENTIFICATION**Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 as amended**

Hazard Statement: Contact with skin and eyes may result in irritation. Read SDS before using.

Health Hazards: Serious eye damage/ eye irritation-Category 1

H318- Causes serious eye damage

Carcinogenicity: Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data are not available for this specific formulation. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

Environmental Hazards: None known.

Label Elements**Label according to Regulation(EC) No.1272/2008 as amended****Hazard Pictograms:**

Signal Word: Warning

Hazard Statement

H319-Causes serious eye irritation.

Precautionary Statement(s)**Prevention:**

P280-Wear protective gloves/protective clothing/eye protection/face protection.

P273- Avoid release to environment.

Response: **P305+P351+P338**- **If in eyes:** Rinse cautiously with water for 15 min. Remove contact lenses, if present and easy to do and rinse for another 15 min.

Storage: Store in 15-30 Deg. Celsius. Keep away from direct light.

Disposal: Dispose of contents/container in accordance with local and federal regulations.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

<u>CAS Number/EC No</u>	<u>Percent (%)</u>	<u>Chemical Name</u>
1) 7732-18-5/231-18-5	1-75	Water
2) Trade Secret	1-15	Proprietary Organic Material
3) 1333-86-4/215-609-9	1-5	Carbon Black
4) 56-81-5/200-289-5	1-20	Glycerin

4. FIRST AID MEASURES

Inhalation

: If inhaled move to fresh air. Inhalation of vapor is not expected to be significant routes of exposure for this product under normal use conditions. Respiratory irritation may occur, if persists seek medical attention.

Ingestion	: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
Skin Contact	: In case of contact, immediately flush skin with plenty of water while removing contaminated clothes and shoes. Wash clothing before reuse. Get medical attention if symptoms appear.
Eye Contact	: Do not rub eyes. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

5. FIRE-FIGHTING MEASURES

Flammable Properties	: Not flammable.
Extinguishing Media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Special Fire-fighting Procedures	: Not available
Hazardous Thermal Decomposition Products	: Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	: Use all necessary personal protective equipment.
Environmental Precautions	: Do not let product enter drains. Do not flush into surface water or sanitary sewer systems.
Methods for Cleaning Up	: Move containers from the spill area. Prevent from entering sewers, water courses, basements, or confined areas. Contain and collect spillage with inert absorbent material (e.g. sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product.

7. HANDLING AND STORAGE

Handling	: Avoid contact with skin, eyes and clothing. Obtain and review special instructions before use.
Storage	: Keep out of the reach of children. Keep away from excessive heat or cold.
Packaging Materials	: Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: There are no exposure limits for this specific product, exposure limits for hazardous components are:

Chemical Name	ACGIH	NIOSH	OSHA-Final PELs
Glycerin	10 mg/m ³	None listed	15 mg/m ³ TWA (total) 5 mg/m ³ TWA (respirable fractions)

Carbon Black 7, CAS# 1333-84-4:

Argentina: 3.5 mg/m³, TWA

Australia: 3.0 mg/m³, TWA inhalable

Belgium: 3.6 mg/m³, TWA

Brasil: 3.5 mg/m³, TWA

Canada (Ontario): 3.0 mg/m³, TWA inhalable

China: 4.0 mg/m³, TWA; 8.0 mg/m³, STEL

Colombia: 3.0 mg/m³, TWA inhalable

Czech Republic: 2.0 mg/m³, TWA

Finland: 3.5 mg/m³, TWA; 7.0 mg/m³, STEL

France - INRS: 3.5 mg/m³, TWA/VME inhalable

Hong Kong: 3.5 mg/m³, TWA Indonesia: 3.5 mg/m³, TWA/NABs

Ireland: 3.5 mg/m³, TWA; 7.0 mg/m³, STEL

Italy: 3.0 mg/m³, TWA inhalable

Japan MHLW: 3.0 mg/m³ Japan SOH: 4.0 mg/m³, TWA; 1.0 mg/m³, TWA respirable

Korea: 3.5 mg/m³, TWA

Malaysia: 3.5 mg/m³, TWA

Netherlands - MAC: 3.5 mg/m³, TWA inhalable

Norway: 3.5 mg/m³, TWA

Spain: 3.5 mg/m³, TWA (VLA-ED)

Sweden: 3.0 mg/m³, TWA

United Kingdom - WEL: 3.5 mg/m³, TWA inhalable; 7.0 mg/m³, STEL inhalable

US ACGIH - TLV: 3.0 mg/m³, TWA inhalable US OSHA - PEL: 3.5 mg/m³, TWA

Taiwan: 3.5 mg/m³ TWA, 7 mg/m³ STEL

Engineering Controls:

Use in an adequately ventilated area.

Personal Protective Equipment**Skin and Body:**

Use personal protective equipment to minimize exposure to skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Wear appropriate chemical resistant clothing.

Respiratory Protection: For use other than the intended use, such as in the event of a large spill, goggles and respirators may be required.

Thermal Hazards: Not available.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Color	: Black
Odor	: No Data Available
Boiling Point	: Not Determined
Melting Point	: Not Determined
Freezing Point	: No Data Available
Specific Gravity	: 1 (Water = 1)
Vapor Density	: No Data Available (Air = 1)
Vapor Pressure	: Not Determined
EvaporationRate (Butyl Acetate = 1)	: No Data Available
Relative Density	: No Data Available
Solubility (Water)	: Soluble
pH	: 7-9
Flash Point	: No Data Available
Auto-Ignition Temperature	: Not Determined
Flammable Limits	: Not Determined
Volatility (w/w)	: No Data Available
VOC Volatility (w/w)	: No Data Available
Less Exempt Volatile	

10. STABILITY AND REACTIVITY

Stability	: This product is stable under recommended conditions of storage and use.
Conditions to Avoid	: Not compatible with oxidizing agents and strong bases
Hazardous Decomposition Products	: Hazardous decomposition products that may be produced if decomposition occurs include gaseous carbon monoxide, carbon dioxide, nitrogen oxides, and/or low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	:Based on available data, the classification criteria are not met
Skin corrosion/irritation	:Based on available data, the classification criteria are not met
Serious eye damage/eye irritation	:Based on available data, the classification criteria are not met
Respiratory sensitization Skin sensitization	:Based on available data, the classification criteria are not met
Germ cell mutagenicity	:Based on available data, the classification criteria are not met
Carcinogenicity	: Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation.
Reproductive toxicity	
Specific target organ toxicity - single exposure	:Based on available data, the classification criteria are not met
Specific target organ toxicity - repeated exposure	:Based on available data, the classification criteria are not met

Acute

Carbon Black(Cas# 1333-86-4) LD50 Oral: >8000 mg/kg(rat)

12. ECOLOGICAL INFORMATION

Eco toxicity	: No data available
Heavy Metals	: No data available
Persistence and Degradability	: No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal	: Waste must be disposed of according to the applicable state, federal, and local regulations.
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14. TRANSPORTATION INFORMATION

Not regulated under United States DOT Domestic Surface, USA, ICAO/IATA AIR, IMO/IMDG OCEAN, ADR, or RID

Special precautions	: Not listed
UN Number	: Not applicable
Class	: Not applicable
Proper shipping name	: Not applicable
Packing group	: Not applicable
Marine pollutant	: None noted

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I	: Not Listed
Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II	: Not Listed
Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended	: Not Listed
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended	: Not Listed
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended	: Not Listed
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended	: Not Listed
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended	: Not Listed
Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry	: Not Listed
Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA	: Not Listed
Authorizations Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization	: Not Listed
Restrictions on use	
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended	: Not Listed
Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work	: Not regulated
Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding	: Not regulated
	: Not regulated

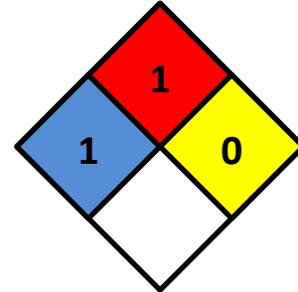
Other EU regulations
 Directive 96/82/EC (Seveso II) on the control of major-
 accident hazards involving dangerous substances

Directive 98/24/EC on the protection of the health and safety
 of workers from the risks related to chemical agents at work

Directive 94/33/EC on the protection of young people at work

**National Fire Protection Association (United
 States)
 US EPA TSCA Inventory**

: Health: 1
 Flammability: 1
 Instability: 0



:All ingredients are listed or exempt from listing.
 Does not contain listed chemicals.

US EPA TSCA 12(b)

16. OTHER INFORMATION

Date of Issue : December 2015
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Notice to the Reader:

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Explanation of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

CAS:Chemical Abstracts Service

CERCLA:Comprehensive Environmental Response Compensation and Liability Act

CFR: Code of Federal Regulations

COC: Cleveland Open Cup

DOT: Department of Transportation

EPCRA: Emergency Planning and Community Right-to-Know Act (aka SARA)

IARC: International Agency for Research on Cancer

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

RCRA: Resource Conservation and Recovery Act

REC: Recommended

REL: Recommended Exposure Limit

SARA: Superfund Amendments and Reauthorization Act of 1986

STEL: Short-Term Exposure Limit

TCLP: Toxicity Characteristics Leaching Procedure

TLV: Threshold Limit Value

TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds