
Safety Data Sheet

SECTION 1 Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier:

Product Name: HP Color LaserJet 9500, 9500GP, 9500HDN, 9500 MFP, 9500N

1.2. Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: Toner for electrophotographic apparatus

Descriptor: Industrial uses (SU3), Ink and toners (PC18)

1.3. Details of the supplier of the safety data sheet:

Supplier: Katun Corporation.

Address: 10951 Bush Lake Rd, Minneapolis, MN 55438

Telephone number: 952-941-9505

1.4. Emergency telephone number: (Chemtrec) (800) 424-9300

SECTION 2 Hazards identification

2.1 Classification of the Substance or mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Not classified as a hazardous mixture

Health Hazards

| | |
|-------------------------|----------------|
| Acute Tox. -oral: | Not classified |
| Acute tox. -inhalation: | Not classified |
| Skin Corr/ Irrit: | Not classified |
| Eye Dam/ Irrit: | Not classified |
| Skin Sens: | Not classified |
| Muta: | Not classified |

Environmental Hazards

| | |
|------------------|----------------|
| Aquatic Acute: | Not classified |
| Aquatic Chronic: | Not classified |

All other Classifications not listed are either "Not applicable" or "Not available"

2.2 Label elements:

2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]

None

2.3 Other hazards:

Risk of dust-explosion if finely dispersed in air with an ignition source.

SECTION 3 Composition/information on ingredients

3.2 Mixtures:

| Ingredient Name | Weight % | CAS No. | REACH Registration | Classification according to Regulation(EC) No 1272/2008 [CLP] |
|---------------------------|----------|--------------|--------------------|---|
| Saturated polyester resin | 75-90 | Confidential | Pre-Registered | None |
| Carbon Black | 2-8 | Confidential | Pre-Registered | None |
| Wax | 3-8 | Confidential | Pre-Registered | None |
| Metal Complex Dye | < 2 | Confidential | Under Procedure | None |
| Silica | 5-10 | Confidential | Pre-Registered | None |
| | | | | |

See SECTION 16 for full text of Hazard Statements.

SECTION 4 First aid measures

4.1 Description of first aid measures:

Immediate medical procedures:

None

Inhalation:

Move to fresh air and gargle with water.

Skin contact:

Wash with soap and water.

Eye contact:

Do not rub. Flush with large amount of water until particles are removed.

Seek medical advice

Ingestion:

Rinse mouth, then drink several glasses of water to dilute stomach content.

Seek medical advice.

4.2 Most important symptoms, both acute and delayed:

Inhalation of excessive amounts of dust may cause physical irritation to respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed:

None

SECTION 5 Firefighting measures

5.1 Extinguishing media:

Water, CO₂, dry chemicals

5.2 Special hazards arising from substance or mixture:

Can form explosive dust-air mixture if finely dispersed in air.

5.3 Advice for firefighters:

Avoid inhalation of fume and smoke.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid breathing dust. Dust-proof masks should be worn when working.

6.2 Environmental precautions:

Do not flush into sewer or natural watercourse.

6.3 Methods and material for containment and cleaning up:

For containment:

Keep in air-tight container.

For cleaning up:

Sweep the spilled powder slowly.

Clean the remainder with wet cloth, wet paper, or vacuum cleaner.

Vacuum cleaner must be equipped with dust proof filter and must be explosion-proof.

For containment:

Keep in air-tight container.

SECTION 7 Handling and storage

7.1 Precautions for safe handling:

Avoid breathing dust. Keep away from ignition sources.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry location away from direct sunlight.

7.3 Specific end use(s):

For use in electrophotographic apparatus such as laser-beam printers and copiers.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters:

As mixture: Dust, respirable

| Country | Limit value –Eight hours | | Limit value –Short term | |
|-----------------------|--------------------------|------------------------|-------------------------|------------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ |
| European Union | Not established | Not established | Not established | Not established |
| Austria | - | 5 | - | 10 |
| Belgium | - | 3 | - | - |
| France | - | 5 (respirable aerosol) | - | - |
| Germany (AGS) | - | 1.25 | - | - |
| Germany (DFG) | - | 1.5 | - | - |
| Hungary | - | 6 | - | - |
| Ireland | - | 4 | - | - |
| Spain | - | 3 | - | - |
| Sweden | - | 5 | - | - |
| Switzerland | - | 3 | - | - |
| USA (ACGIH) | - | 3 | - | - |
| USA (OSHA PEL) | - | 5 | - | - |

Applicable control parameters are not established in other Community Members not listed

Constituent substances:

This mixture is considered as a "Special Mixture" where substances are modulated by their inclusion within the matrix of the mixture; thus, control parameters for constituent substances do not apply in use of this mixture.

8.2 Exposure controls:

Appropriate engineering controls:

Use of local ventilation is recommended.

Individual protection measures:

| | |
|-------------------------|---|
| Eye/face protection: | Protective goggles should be used when handling bulk. |
| Skin Protection: | Not required |
| Hand protection: | Not required |
| Respiratory protection: | Dust-proof mask should be used when handling bulk. |

SECTION 9 Physical and chemical properties**9.1 Information on basic physical and chemical properties:**

| | |
|--|---|
| Appearance: | Magenta powder (average particle size: app. 7 microns) |
| Odour: | Slight odour |
| pH: | Not applicable |
| Melting point: | App. 130°C (flow temperature) |
| Boiling point: | Not applicable |
| Flash point: | Not applicable |
| Evaporation rate: | Not applicable |
| Flammability (according to Directive 92/69/EEC): | |
| As mixture: | Not flammable; Not classified** |
| Explosive limits: | Not available |
| Vapour pressure: | Not applicable |
| Vapour density: | Not applicable |
| Relative density: | 1.1-1.3 |
| Solubility: | |
| As mixture | Insoluble to water, partially soluble to toluene and xylene. |
| <i>Substance quaternary ammonium salt:</i> | <i>1.14g/L (20°C) to water, 35% to methanol, 0.1% to acetone</i> |
| <i>Substance titanium oxide:</i> | <i>Insoluble to water and fat, soluble to strong acids.</i> |
| Partition coefficient: | |
| As mixture | Not available |
| <i>Substance Quaternary ammonium salt:</i> | <i>Log P_{ow} = -0.597 (19°C)</i> |
| Auto-ignition temperature: | Not available |
| Decomposition temperature: | >200°C |
| Viscosity: | Not applicable |
| Explosive properties: | Explosive dust-air mixture is formed when finely dispersed in air |
| Oxidizing properties: | Not available |
| 9.2 Other information: | None |

**according to criteria of Regulation (EC) No 1272/2008 [CLP]

SECTION 10 Stability and reactivity

| | |
|---|---|
| 10.1 Reactivity: | No data |
| 10.2 Chemical stability: | Stable |
| 10.3 Possibility of hazardous reactions: | No data |
| 10.4 Conditions to avoid: | Do not disperse in air with ignition source. |
| 10.5 Incompatible materials: | No data |
| 10.6 Hazardous decomposition products: | Decomposition will not occur under intended uses. |

SECTION 11 Toxicological information**11.1 Information on toxicological effects:**

Acute toxicity

As mixture:

Inhalation: LC₅₀: inh-rat > 5.19mg/L/4 hours (maximum concentration achieved)*; -Not classified**

Ingestion: LD₅₀: oral-rat > 2500mg/kg body weight*; -Not classified**

Substance Quaternary ammonium salt:

Oral: LD₅₀(Rat > 5000 mg/kg, -Not classified**

Dermal: LD₅₀(Rat) >2,000 mg/kg, -Not classified**

Inhalation:LC₅₀: LC₅₀(Rat) 1.61mg/l, -Acute tox.4

Skin corrosion/irritation: Rabbit-4hr; not irritant*; -Not classified**

Serious eye damage/irritation:

As mixture Rabbit-3days; not irritant*; -Not classified**

Substance titanium oxide: Rabbit-3days; mild irritation, but the effect was temporally lasting <24h; -Not classified

Skin sensitization: Guinea pig-maximization; not a sensitizer*: -Not classified**

Germ cell mutagenicity: Ames test Negative*; -Not classified**

Carcinogenicity:

Not available for mixture

Titanium oxide classified as "group 2B" by IARC, but the carcinogenicity of titanium dioxide is limited to lung overload conditions by dust inhalation tests. The content in this toner is considered to be modulated by their inclusion within the matrix of the mixture, not to be respirable by itself making the situation impossible to occur under intended use of this toner.

Thus, carcinogenicity of this toner mixture is concluded to be "Not classified."

Substance titanium oxide: Substance is listed as group 2B by IARC, from the results of inhalation tests to rats. This result is for excessive concentration of respirable dust of the substance causing lung overload of the rats, which results by exposure to other inert fine particles; thus, the effect assumed to have resulted by peculiar characteristics of rats' immune system. Epidemiological studies of titanium dioxide exposure to human do not show relationships to carcinogenic effects. Thus, enough data to classify carcinogenicity of titanium dioxide is concluded to be "Not available"

Reproductive toxicity: Not available for mixture

No constituent components are classified**

STOT-single exposure: Not available for mixture

STOT-repeated exposure: Not available for mixture

Aspiration hazards: Not available for mixture

No constituent components are classified**

*data from toner with similar composition.

**according to criteria of Regulation (EC) No 1272/2008 [CLP]

SECTION 12 Ecological information

12.1 Toxicity

Not available for mixture

Substance quaternary ammonium salt:

Fish: LC₅₀(96hr) > 100mg/L

Crustaceans(Daphnia magna): EC₅₀(48hr): 10mg/L

Algae(Pseudokirchneriella subcapitata): EbL₅₀(72h): 39mg/l, (NOEC: 0.20mg/l)

*-Aquatic Acute2***

12.2 Persistence and degradability

Not available for mixture

Substance Quaternary ammonium salt: Not readily biodegradable. (24% after 28days)

12.3 Bioaccumulative potential

Not available for mixture

Substance Quaternary ammonium salt: Log P_{ow} = -0.597; Not suspected to be bioaccumulative.

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment:

This mixture does not contain any substance that are assessed to be PBT or vPvB.

12.6 Other adverse effects:

Not available

**data from toner with similar composition.*

***according to criteria of Regulation (EC) No 1272/2008 [CLP]*

SECTION 13 Disposal consideration

13.1 Waste treatment methods

Dispose according to local authority requirements.

Waste should not be released to sewer or natural watercourse.

DO NOT put toner powder or container into fire.

SECTION 14 Transport information

14.1 UN number

None

14.2 UN proper shipping name

None

14.3 Transport hazard class(es)

ADR / RID / ADN: none

IMDG Code: none

ICAO-TI / IATA-DGR: none

14.4 Packing group

None

14.5 Environmental hazards:

Not classified as environmentally hazardous under UN Model Regulations.

Not classified as marine pollutant under IMDG Code.

14.6 Special precautions for user:

Handling such as exposure to water, rolling, falling, or giving shock to the container may result in breakage of the inner bag and result in scattering of the mixture.

Avoid direct sunlight and hot places. (See also: Section 7)

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

None

SECTION 15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU Regulations

Regulation (EC) No 1272/2008 [CLP]

Not classified as hazardous mixture, label not required

Regulation (EC) No 1907/2006 [REACH]

Restricted substances: None

SVHC: None*

Registration: See SECTION 3

**Up to 12th updated list issued 17-Dec.-2014*

National regulations (France):

French enforcement Decree no. 2012-232 of 17-February, 2012

Substances "Silica, treated" and "Titanium (IV) oxide," is considered as nanomaterial, but it is considered to be modulated by their inclusion within the matrix of the mixture; thus, it is not considered to be "contained without being linked to the mixture."

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this mixture by the supplier.

SECTION 16 Other information

Issued according to (EC) 453/2010 Annex II amendment of REACH Annex II

Indication of changes:

12-Jun.-2015: First issued

Abbreviations and acronyms:

| | |
|--------------------------------|--|
| FAX: | Facsimile |
| CLP: | Classification Labelling Packaging regulation |
| Flam. Sol. | Flammable Solid |
| Tox. | Toxicity |
| Corr. | Corrosivity |
| Irrit. | Irritation |
| Dam. | Damage |
| Sens. | Sensitization |
| Muta. | Mutagenicity |
| CAS: | Chemical Abstract Service |
| REACH: | Registration, Evaluation, Authorization, and Restriction of Chemicals |
| ppm: | parts per million (weight/weight) |
| AGS | Ausschuss für Gefahrstoffe |
| DFG | Deutsche Forschungsgemeinschaft |
| USA | United States of America |
| ACGIH: | American Conference of Governmental Industrial Hygienists |
| TWA: | Time weighted Average |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| app. | approximately |
| LC ₅₀ | Lethal Concentration to 50% of test population |
| LD ₅₀ | Lethal Dose to 50% of test population |
| IARC: | International Agency for Research on Cancer |
| NTP: | National Toxicology Program |
| NIOSH: | National Institute of Occupational Safety and Health |
| STOT-SE: | Specific Target Organ Toxicity –Single Exposure |
| STOT RE | Specific Target Organ Toxicity –Repeated Exposure |
| WAF | Water Accommodated Fraction |
| EC ₅₀ | Effective Concentration to 50% of test population |
| NOEC | No Observed Effect Concentration |
| E _L 50 | Effective Loading rate that causes growth rate reduction to 50% |
| E _b L ₅₀ | Effective Loading rate that causes 50% reduction in algal cell biomass |
| PBT | Persistent, Bioaccumulative, and Toxic |

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| | |
|-----------|---|
| vPvB: | very Persistent and very Bioaccumulative |
| UN | United Nations |
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| RID: | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| ADN: | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| IMDG | International Maritime Dangerous Goods |
| IATA-DGR: | International Air Transport Association Dangerous Goods Regulations |
| ICAO-TI: | Technical Instructions for the Safe Transport of Dangerous Goods by Air |
| SVHC: | Substances of Very High Concern |

Full text of Hazard Statements:

| | |
|-------------------|---|
| Hazard Statements | |
| H332 | Harmful if inhaled |
| H401 | Toxic to aquatic life |
| H411 | Toxic to aquatic life with long lasting effects |

Classification procedures:

| | |
|-------------------------|---|
| Acute Tox. -oral: | Data from similar mixture and bridging principle "Dilution" |
| Acute tox. -inhalation: | Data from similar mixture and bridging principle "Dilution" |
| Skin Corr/ Irrit: | Data from similar mixture and bridging principle "Dilution" |
| Eye Dam/ Irrit: | Data from similar mixture and bridging principle "Dilution" |
| Skin Sens: | Data from similar mixture and bridging principle "Dilution" |
| Muta: | Data from similar mixture and bridging principle "Dilution" |
| Aquatic Acute: | Classification data of constituent substances |
| Aquatic Chronic: | Classification data of constituent substances |

Although the information contained in this SDS is prepared to be accurate to the best of our knowledge, please be aware that health and hazard assessment may not be enough and complete.

Since SDS may be revised due to regulation changes or product modifications, please confirm if this is the latest version, especially if the revision date is outdated for two years.
