

Safety Data Sheet

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

1.1. Product identifier:

Product Name: GK6 Magenta for use in CN C7065 and 7260

Product Code: 76M

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	70-80	Confidential	Registered*	None
Pigment	2-8	Confidential	Registered	None
Silica, treated	1-6	Confidential	Registered	None
Wax	1-6	Confidential	Pre-Registered	None
Titanium(IV) dioxide	0.1-2	13463-67-7	Registered	None
Quaternary ammonium salt**	0.1-1	102561-46-6	Registered	Acute Tox.4, H332 Aquatic Acute2, H401 Aquatic Chronic2, H411

*Registered as all applicable monomers

** Tributylbenzylammonium 4-hydroxynaphthalene-1-sulfonate

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.

Substance quaternary ammonium salt: 1.14g/L (20°C) to water, 35% to methanol, 0.1% to acetone

Substance titanium oxide: Insoluble to water and fat, soluble to strong acids.

Partition coefficient:

As mixture Not available

Substance Quaternary ammonium salt: Log P_{ow} = -0.597 (19°C)

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

Revised: 12-Jun.-2015

MSDS No.: 76M-EU001

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.