



Sigma Inks
12113 Kirkham Road
Poway, CA 92064
USA

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/29/2015

Reviewed on 06/29/2015

1 Identification

- **Product identifier**
- **Trade name: PP Opaque Colors Series**
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Sigma Inks (US)
12113 Kirkham Road
Poway, CA 92064 USA
Phone: (888) 424-9300
Website: www.sigmainks.com or contact distributor: www.printexusa.com
- **Emergency telephone number:**
Chemtrec (US): (800) 424-9300
Chemtrec (Outside US): (703) 527-3887 (Collect calls accepted)

* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.
Carc. 1B H350 May cause cancer.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger



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· **Hazard-determining components of labeling:**

Solvent naphtha (petroleum), light aromatic
Pigment
polyvinyl chloride
1,2,4-Trimethylbenzene
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
Decanedioic acid

· **Hazard statements**

Flammable liquid and vapor.
Causes skin irritation.
May cause an allergic skin reaction.
May cause genetic defects.
May cause cancer.
May cause respiratory irritation.
May be fatal if swallowed and enters airways.
Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves / eye protection / face protection.
Wear protective gloves.
Ground/bond container and receiving equipment.
Use only non-sparking tools.
Avoid release to the environment.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If swallowed: Immediately call a poison center/doctor.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a poison center/doctor if you feel unwell.
Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical advice/attention.
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
Do NOT induce vomiting.
In case of fire: Use for extinction: CO₂, powder or water spray.
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Unknown acute toxicity:**

92 percent of the mixture consists of ingredient(s) of unknown toxicity.

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Hazard(s) not otherwise classified (HNOC):** None known

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous Components:**

| | | |
|-------------------------------------|---|----------|
| CAS: 108-65-6 | 2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226 | 7-12% |
| | Pigment ⚠ STOT SE 3, H335 | 0.3-29% |
| CAS: 64742-95-6 | Solvent naphtha (petroleum), light aromatic ⚠ Flam. Liq. 3, H226; ⚠ Muta. 1B, H340; ⚠ Carc. 1B, H350; ⚠ Asp. Tox. 1, H304 | 6-12% |
| CAS: 108-94-1 RTECS: GW 1050000 | Cyclohexanone ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H332 | 7-12% |
| CAS: 1330-20-7 RTECS: ZE 2100000 | Xylene ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; ⚠ Acute Tox. 4, H332; ⚠ Skin Irrit. 2, H315 | 6-11% |
| CAS: 9002-86-2 RTECS: KV0350000 | polyvinyl chloride ⚠ STOT SE 3, H335 | 2-11% |
| CAS: 95-63-6 RTECS: DC3325000 | 1,2,4-Trimethylbenzene ⚠ Flam. Liq. 3, H226; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H332; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319; ⚠ STOT SE 3, H335 | 2-4% |
| CAS: 41556-26-7 | Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317 | 0.4-0.8% |
| CAS: 98-82-8 RTECS: GR 8575000 | cumene ⚠ Flam. Liq. 3, H226; ⚠ Carc. 2, H351; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335 | 0.3-0.6% |
| CAS: 82919-37-7 | Decanedioic acid ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317 | 0.1-0.2% |
| CAS: 763-69-9 RTECS: UF 3325000 | Ethyl 3-ethoxypropionate ⚠ Flam. Liq. 3, H226 | 3-5% |

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4 First-aid measures

· **Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness, place patient securely on side position for transportation.

· **After skin contact:**

Wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

If eye irritation occurs, consult a doctor.

· **After swallowing:** If swallowed and symptoms occur, consult a doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:**

Mouth respiratory protective device.

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.

· **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

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Open and handle receptacle with care.
Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Protect from heat.
Protect against electrostatic charges.
Keep protective respiratory device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep receptacle tightly sealed.
Protect from heat and direct sunlight.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**

· **Components with occupational exposure limits:**

108-65-6 2-methoxy-1-methylethyl acetate

WEEL Long-term value: 50 ppm

108-94-1 Cyclohexanone

PEL Long-term value: 200 mg/m³, 50 ppm

REL Long-term value: 100 mg/m³, 25 ppm
Skin

TLV Long-term value: 50 mg/m³, 20 ppm
Skin

1330-20-7 Xylene

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm

TLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI

95-63-6 1,2,4-Trimethylbenzene

REL Long-term value: 125 mg/m³, 25 ppm

TLV Long-term value: 123 mg/m³, 25 ppm

· **Ingredients with biological limit values:**

108-94-1 Cyclohexanone

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| | |
|-------------------------|---|
| BEI | 80 mg/L urine end of shift at end of workweek 1,2-Cyclohexanediol with hydrolysis (nonspecific, semi-quantitative) |
| | 8 mg/L urine end of shift Cyclohexanol with hydrolysis (nonspecific, semi-quantitative) |
| 1330-20-7 Xylene | |
| BEI | 1.5 g/g creatinine urine end of shift Methylhippuric acids |

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· **Breathing equipment:** Not required.

· **Protection of hands:**



Protective gloves

· **Eye protection:**



Goggles recommended during refilling.

* 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:

Liquid

Color:

See product specification

· **Odor:**

Characteristic

· **Odor threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

137 °C (279 °F)

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- **Flash point:** 30 °C (86 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 315 °C (599 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- **Explosion limits:**
 - Lower:** 0.7 Vol %
 - Upper:** 10.8 Vol %
- **Vapor pressure @ 20 °C (68 °F):** 6.7 hPa (5 mm Hg)
- **Density:**
 - Relative density** Not determined.
 - Vapor density** Not determined.
 - Evaporation rate** Not determined.
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 50 %
 - VOC content:** 50 %
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Heat, flame and ignition sources.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

108-65-6 2-methoxy-1-methylethyl acetate

| | | |
|------------|---------------|---------------------|
| Oral | LD50 | 8532 mg/kg (rat) |
| Inhalative | LC50/4 h | 35.7 mg/l (rat) |
| | LC50/96 hours | 129.92 mg/l (Trout) |

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| | | |
|---|---------------|-----------------------|
| | LC50/48 hrs | 316.57 mg/l (daphnia) |
| 64742-95-6 Solvent naphtha (petroleum), light aromatic | | |
| Oral | LD50 | >6800 mg/kg (rat) |
| Dermal | LD50 | >3400 mg/kg (rab) |
| Inhalative | LC50/4 h | >10.2 mg/l (rat) |
| 108-94-1 Cyclohexanone | | |
| Oral | LD50 | 1535 mg/kg (rat) |
| Dermal | LD50 | 948 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 8000 mg/l (rat) |
| | LC50/96 hours | 491.475 mg/l (Trout) |
| | LC50/48 hrs | 257.42 mg/l (daphnia) |
| 1330-20-7 Xylene | | |
| Oral | LD50 | 4300 mg/kg (rat) |
| Dermal | LD50 | 1700 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 5000 mg/l (rat) |
| 95-63-6 1,2,4-Trimethylbenzene | | |
| Oral | LD50 | 6000 mg/kg (rat) |
| Inhalative | LC50/96 hours | 3.359 mg/l (Trout) |
| | LC50/48 hrs | 2.21 mg/l (daphnia) |
| 98-82-8 cumene | | |
| Oral | LD50 | 1400 mg/kg (rat) |
| Dermal | LD50 | 12300 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 24.7 mg/l (mouse) |
| | LC50/96 hours | 6.265 mg/l (Trout) |
| | LC50/48 hrs | 3.202 mg/l (daphnia) |
| 82919-37-7 Decanedioic acid | | |
| Oral | LD50 | >2000 mg/kg (rat) |

- **Primary irritant effect:**
- **on the skin:** Emmissions from broken bulbs may cause an allergic skin reaction.
- **on the eye:** No irritating effect.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant
Carcinogenic.
The product can cause inheritable damage.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

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| | | |
|-----------|--------------------|----|
| 108-94-1 | Cyclohexanone | 3 |
| 1330-20-7 | Xylene | 3 |
| 9002-86-2 | polyvinyl chloride | 3 |
| 98-82-8 | cumene | 2B |

· **NTP (National Toxicology Program)**

| | | |
|---------|--------|---|
| 98-82-8 | cumene | R |
|---------|--------|---|

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

108-65-6 2-methoxy-1-methylethyl acetate

EC50 170.43 mg/l (Green algae) (96 Hr)

108-94-1 Cyclohexanone

EC50 137.349 mg/l (Green algae) (96 hr)

1330-20-7 Xylene

EC50 72 mg/l (Green algae)

75.49 mg/l (daphnia)

95-63-6 1,2,4-Trimethylbenzene

EC50 3.084 mg/l (Green algae)

98-82-8 cumene

EC50 4.148 mg/l (Green algae)

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Observe all federal, state and local environmental regulations when disposing of this material.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

*** 14 Transport information**

- **UN-Number**
- **DOT, ADR, IMDG, IATA**
- **UN proper shipping name**
- **DOT**
- **ADR**
- **IMDG, IATA**
- **Transport hazard class(es)**

UN1210
Printing ink
UN1210 Printing ink
PRINTING INK

· **DOT**



- **Class**
 - **Label**
- 3 Flammable liquids
3

· **ADR**



- **Class**
 - **Label**
- 3 (F1) Flammable liquids
3

· **IMDG, IATA**



- **Class**
 - **Label**
 - **Packing group**
 - **DOT, ADR, IMDG, IATA**
 - **Environmental hazards:**
 - **Special precautions for user**
 - **Danger code (Kemler):**
 - **EMS Number:**
 - **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
 - **Transport/Additional information:**
 - **DOT**
 - **Quantity limitations**
- 3 Flammable liquids
3
III
Not applicable.
Warning: Flammable liquids
30
F-E,S-D
Not applicable.
On passenger aircraft/rail: 60 L
On cargo aircraft only: 220 L



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- **ADR**
- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

- **IMDG**
- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
- **UN "Model Regulation":** UN1210, Printing ink, 3, III

***15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

| | |
|-----------|------------------------|
| 1330-20-7 | Xylene |
| 95-63-6 | 1,2,4-Trimethylbenzene |
| 98-82-8 | cumene |

· **TSCA (Toxic Substances Control Act):**

| | |
|------------|---|
| 108-65-6 | 2-methoxy-1-methylethyl acetate |
| 28262-63-7 | Acrylic Resin |
| 68442-33-1 | Polypropylene, chlorinated |
| 68609-36-9 | Modified Chlorinated Polyolefin |
| 64742-95-6 | Solvent naphtha (petroleum), light aromatic |
| 108-94-1 | Cyclohexanone |
| 53710-52-4 | Modified Chlorinated Polyolefin |
| 1330-20-7 | Xylene |
| 9002-86-2 | polyvinyl chloride |
| 763-69-9 | Ethyl 3-ethoxypropionate |
| 95-63-6 | 1,2,4-Trimethylbenzene |
| 41556-26-7 | Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate |
| 98-82-8 | cumene |
| 82919-37-7 | Decanedioic acid |

· **California Proposition 65**

· **Chemicals known to cause cancer:**
98-82-8 | cumene

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients are listed.



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| |
|---|
| · Chemicals known to cause developmental toxicity: |
| None of the ingredients are listed. |

| | |
|--|--------|
| · Carcinogenic categories | |
| · EPA (Environmental Protection Agency) | |
| 1330-20-7 Xylene | I |
| 98-82-8 cumene | D, CBD |

| | |
|---|----|
| · TLV (Threshold Limit Value established by ACGIH) | |
| 108-94-1 Cyclohexanone | A3 |
| 1330-20-7 Xylene | A4 |
| 9002-86-2 polyvinyl chloride | A4 |

| |
|---|
| · NIOSH-Ca (National Institute for Occupational Safety and Health) |
| None of the ingredients are listed. |

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

- Solvent naphtha (petroleum), light aromatic
- Pigment
- polyvinyl chloride
- 1,2,4-Trimethylbenzene
- Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
- Decanedioic acid

· **Hazard statements**

- Flammable liquid and vapor.
- Causes skin irritation.
- May cause an allergic skin reaction.
- May cause genetic defects.
- May cause cancer.
- May cause respiratory irritation.
- May be fatal if swallowed and enters airways.
- Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves / eye protection / face protection.
- Wear protective gloves.
- Ground/bond container and receiving equipment.
- Use only non-sparking tools.
- Avoid release to the environment.



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- Take precautionary measures against static discharge.
- Wash thoroughly after handling.
- Contaminated work clothing must not be allowed out of the workplace.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- If swallowed: Immediately call a poison center/doctor.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a poison center/doctor if you feel unwell.
- Wash contaminated clothing before reuse.
- IF exposed or concerned: Get medical advice/attention.
- If skin irritation occurs: Get medical advice/attention.
- If skin irritation or rash occurs: Get medical advice/attention.
- Do NOT induce vomiting.
- In case of fire: Use for extinction: CO2, powder or water spray.
- If on skin: Wash with plenty of water.
- Take off contaminated clothing and wash it before reuse.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· **State Right to Know**

All ingredients are listed.

· **Information about limitation of use:**

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision** 06/29/2015 / 2

· **Abbreviations and acronyms:**

- ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids, Hazard Category 3



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Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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Trade name: PP Opaque Colors Series

Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Muta. 1B: Germ cell mutagenicity, Hazard Category 1B
Carc. 1B: Carcinogenicity, Hazard Category 1B
Carc. 2: Carcinogenicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

*** Data compared to the previous version altered.**

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