

# SAFETY DATA SHEET

 Print Date
 Revision Date
 Revision Number

 Dec-08-2015
 Dec-08-2015
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# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product code GEN1800

Product name Color Matches

Product category 1800 PowerPrint® Plus UV Screen Ink

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

Recommended use Printing operations

1.3 Details of the supplier of the safety data sheet

UNITED STATES
UNITED KINGDOM
Nazdar Company
Nazdar Limited
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Heaton Mersey

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Contact person Regulatory Compliance: Tel: 1-913-422-1888 (ext 2305)

E-mail address regcomp@nazdar.com

1.4 Emergency telephone number

USA: Chemtrec: 1-800-424-9300

Outside USA: Chemtrec: 1-703-527-3887 24 Hour Emergency Phone Number

# **Section 2: HAZARDS IDENTIFICATION**

# 2.1 Classification of the substance or mixture

According to Regulation (EC) No 1272/2008

According to Regulation (EC) NO 1272/2008	
Skin Corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1A - (H317)
Specific target organ toxicity (repeated exposure)	Category 1 - (H372)
Chronic aquatic toxicity	Category 2 - (H411)

2.2 Label elements





# **Hazard Statements**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H372 - Causes damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

EUH208 - May produce an allergic reaction

#### Precautionary Statements - EU (§28, 1272/2008)

P314 - Get medical advice/attention if you feel unwell

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P273 - Avoid release to the environment

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

#### 2.3 Other Hazards

General Hazards

No information available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 3.2 Mixtures

Component	EC No.	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH No.	Note
2-Phenoxyethyl acrylate	256-360-6	48145-04-6	< 30	Skin Sens. 1A (H317) Aquatic Chronic 2 (H411)	No data available	
N-vinylcaprolactam	218-787-6	2235-00-9	< 30	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Eye Irrit. 2A (H319) Skin Sens. 1B (H317) STOT RE 1 (H372)	No data available	
Titanium dioxide	236-675-5	13463-67-7	< 30	Not Classified	No data available	1
Trimethylolpropane triacrylate (TMPTA)	239-701-3	15625-89-5	< 10	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	No data available	
Hexamethylene diacrylate (HDODA)	235-921-9	13048-33-4	< 10	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	No data available	
Carbon black	215-609-9 435-640-3	1333-86-4	< 10	Not Classified	No data available	1
(2,4,6 trimethylbenzoyl) diphenyl phosphine oxide	278-355-8	75980-60-8	< 5	Repr. 2 (H361f)	No data available	
Silicon Dioxide	231-545-4	7631-86-9	< 5	Not Classified	No data available	1
Phosphine oxide, phenylbis(2,4,6-trimethyl benzoyl)-	423-340-5	162881-26-7	< 0.5	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	No data available	
1-Butanone, 2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-( phenylmethyl)-	404-360-3	119313-12-1	< 0.5	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available	

Note

#### Full text of H- and EUH-phrases: see section 16

# **Section 4: FIRST AID MEASURES**

# 4.1 Description of first aid measures

**General Advice** Show this safety data sheet to the doctor in attendance.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Get medical attention if irritation develops and

persists.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. Remove

<sup>1.</sup> Substance with a Community workplace exposure limit

contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or

stopped, administer artificial respiration. Get medical attention immediately.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Never give

anything by mouth to an unconscious person.

#### 4.2 Most important symptoms and effects, both acute and delayed

None under normal use conditions.

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

Notes to Physician Treat symptomatically.

# **Section 5: FIRE FIGHTING MEASURES**

# 5.1 Extinguishing media

Inhalation

# Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available.

#### 5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions. Hazardous polymerization may take place during a fire due to heat. Closed containers could violently rupture.

#### 5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

# **Section 6: ACCIDENTAL RELEASE MEASURES**

# 6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### 6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

#### 6.3 Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

# 6.4 Reference to other sections

See Section 12 for more information.

# Section 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep at temperatures between 18°-32°C (65°-90°F). Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep out of the reach of children. Protect from direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.

# 7.3 Specific end use(s)

**Exposure Scenario** No information available.

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

# **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

# 8.1 Control parameters

# **Exposure limits**

Component

Titanium dioxide 13463-67-7

Component	The United Kingdom
Titanium dioxide	STEL: 30 mg/m³ (total inhalable)
13463-67-7	STEL: 12 mg/m³ (respirable)
	TWA: 10 mg/m³ (total inhalable)
	TWA: 4 mg/m³ (respirable)
Carbon black	STEL: 7 mg/m <sup>3</sup>
1333-86-4	TWA: 3.5 mg/m <sup>3</sup>
Silicon Dioxide	STEL: 18 mg/m³ (inhalable dust)
7631-86-9	STEL: 7.2 mg/m³ (respirable dust)
	TWA: 6 mg/m³ (inhalable dust)
	TWA: 2.4 mg/m³ (respirable dust)
Component	France
Titanium dioxide	TWA/VME: 10 mg/m³ (as Ti)
13463-67-7	
Carbon black	TWA/VME: 3.5 mg/m <sup>3</sup>
1333-86-4	
Component	Germany
Silicon Dioxide	TWA/MAK: 4 mg/m³ (inhalable fraction)
7631-86-9	TWA/AGW: 4 mg/m³ (inhalable fraction)
Component	Spain
Titanium dioxide	TWA/VLA-ED: 10 mg/m³
13463-67-7	TVVA/VLA-LD. TO MIG/MI
	TMANUA ED O E martino
Carbon black 1333-86-4	TWA/VLA-ED: 3.5 mg/m <sup>3</sup>
1333-00-4	
Component	Portugal
Titanium dioxide	TWA/VLE-MP: 10 mg/m <sup>3</sup>
13463-67-7	TVV/VVEE IVII . TO MIG/III
Carbon black	TW/AA/I E MD: 2 E mg/m3
1333-86-4	TWA/VLE-MP: 3.5 mg/m <sup>3</sup>
1000 00 4	
Component	Finland
Carbon black	TWA: 3.5 mg/m <sup>3</sup>
1333-86-4	STEL: 7 mg/m <sup>3</sup>
1000 00 4	OTEL: 7 mg/m
Component	Denmark
Titanium dioxide	TWA: 6 mg/m³ (as Ti)
13463-67-7	
Carbon black	TWA: 3.5 mg/m <sup>3</sup>
1333-86-4	
Component	Austria
Titanium dioxide	STEL/KZW: 10 mg/m³ (alveolar dust, respirable fraction)
Titanium dioxide 13463-67-7	TWA/TMW: 5 mg/m³ (alveolar dust, respirable fraction)
Titanium dioxide	

Switzerland

TWA/MAK: 3 mg/m³ (respirable)

Silicon Dioxide	TWA/MAK: 4 mg/m³ (inhalable)
7631-86-9	TWA/MAK: 0.3 mg/m3 (respirable)

Component	Poland
Titanium dioxide 13463-67-7	TWA/NDS: 10.0 mg/m³ (total inhalable dust)
Carbon black 1333-86-4	TWA/NDS: 4.0 mg/m³ (total inhalable dust)

Component	Norway
Titanium dioxide 13463-67-7	TWA: 5 mg/m³
Carbon black 1333-86-4	TWA: 3.5 mg/m³
Silicon Dioxide 7631-86-9	TWA: 1.5 mg/m³ (respirable dust)

Component	Ireland
Titanium dioxide	TWA: 10 mg/m³ (total inhalable dust)
13463-67-7	TWA: 4 mg/m³ (respirable dust)
Carbon black	TWA: 3.5 mg/m <sup>3</sup>
1333-86-4	STEL: 7 mg/m <sup>3</sup>
Silicon Dioxide	TWA: 6 mg/m³ (total inhalable dust)
7631-86-9	TWA: 2.4 mg/m³ (respirable dust)

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

#### 8.2 Exposure controls

**Engineering Measures** Provide a good standard of general ventilation. Natural ventilation is from doors, windows

etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment

**Eye/face Protection** Wear safety glasses with side shields (or goggles). If splashes are likely to occur:. Wear

suitable face shield. Ensure that eyewash stations and safety showers are close to the

workstation location.

**Eye Protection** Ensure that eyewash stations and safety showers are close to the workstation location.

Avoid contact with eyes. Safety glasses with side-shields. Goggles. Face-shield.

**Skin Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Respiratory protection must be provided in

accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before

eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of

equipment, work area and clothing is recommended.

**Environmental exposure controls** No information available.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

Physical State Liquid Appearance Colored Liquid

Odor Mild Sweet Acrylic Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** No data available

Melting point/freezing point

No data available

Boiling point/Boiling Range > 149 °C / 300 °F

Flash Point > 94 °C / > 201 °F Pensky Martens Closed Cup (PMCC)

Evaporation rate No data available

Flammability Limit in Air

Upper flammability limit
Lower flammability limit
Vapor Pressure
Vapor Density

No data available
No data available
No data available
No data available

Specific Gravity 1.08 - 1.56

Water Solubility

Solubility in other solvents

Partition coefficient: n-octanol/water

Autoignition Temperature

Decomposition temperature

No data available

Explosive Properties No data available Oxidizing Properties No data available

9.2 Other information

Softening Point No data available

# Section 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

No information available.

#### 10.2 Chemical Stability

Stable under normal conditions.

#### 10.3 Possibility of Hazardous Reactions

None under normal processing. Do not store for longer periods at temperatures above 93°C (200°F).

#### 10.4 Conditions to avoid

Temperatures above 93 °C / 200 °F. Protect from direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.

#### 10.5 Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

#### 10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO2). Carbon monoxide.

# Section 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

#### **Acute Toxicity**

InhalationThere is no data for this product.Eye ContactThere is no data for this product.Skin ContactThere is no data for this product.IngestionThere is no data for this product.

**Unknown Acute Toxicity** 33.73 % of the mixture consists of ingredient(s) of unknown toxicity.

#### The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 2,704.00 mg/kg **ATEmix (dermal)** 5,702.00 mg/kg

# Unknown Acute Toxicity

33.73 % of the mixture consists of ingredient(s) of unknown toxicity.

- 9.26 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 9.26 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 33.73 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 33.73 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 33.73 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component	Oral LD50
2-Phenoxyethyl acrylate 48145-04-6	4660 μL/kg (Rat)
Titanium dioxide 13463-67-7	>10000 mg/kg(Rat)
Trimethylolpropane triacrylate (TMPTA) 15625-89-5	5190 μL/kg (Rat)
Hexamethylene diacrylate (HDODA) 13048-33-4	5 g/kg(Rat)
Carbon black 1333-86-4	>15400 mg/kg(Rat)
Silicon Dioxide 7631-86-9	>5000 mg/kg ( Rat )

Component	LD50 Dermal
2-Phenoxyethyl acrylate 48145-04-6	2540 μL/kg (Rabbit)
Trimethylolpropane triacrylate (TMPTA) 15625-89-5	5000 mg/kg (Rabbit)
Hexamethylene diacrylate (HDODA) 13048-33-4	3600 μL/kg(Rabbit)
Carbon black 1333-86-4	>3 g/kg(Rabbit)
Silicon Dioxide 7631-86-9	>2000 mg/kg(Rabbit)

Component	Inhalation LC50
Silicon Dioxide	>2.2 mg/L (Rat) 1 h
7631-86-9	, ,

Skin corrosion/irritationThere is no data for this product.Eye damage/irritationThere is no data for this product.SensitisationThere is no data for this product.Mutagenic EffectsThere is no data for this product.Carcinogenic effectsThere is no data for this product.Reproductive EffectsThere is no data for this product.

Component	CMR, categories 1 and 2
(2,4,6 trimethylbenzoyl) diphenyl phosphine oxide	Repr. 2
75980-60-8	·

STOT - single exposure
STOT - repeated exposure
Aspiration hazard

There is no data for this product.
There is no data for this product.
There is no data for this product.

# **Section 12: ECOLOGICAL INFORMATION**

# 12.1 Toxicity

Toxic to aquatic life with long lasting effects

# **Unknown Aquatic Toxicity**

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Component	Algae/aquatic plants
Silicon Dioxide	72h EC50 Pseudokirchneriella subcapitata: 440 mg/L
7631-86-9	

	Component	Fish
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Silicon Dioxide 7631-86-9	96h LC50 Brachydanio rerio: 5000 mg/L [static]
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Component	Crustacea
Carbon black	24h EC50 Daphnia magna: >5600 mg/L
1333-86-4	
Silicon Dioxide	48h EC50 Ceriodaphnia dubia: 7600 mg/L
7631-86-9	

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

# 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

#### 12.6 Other adverse effects.

No information available.

# **Section 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

**Products** 

**Contaminated Packaging** 

Waste from Residues / Unused Contain and dispose of waste according to local regulations.

Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# **Section 14: TRANSPORT INFORMATION**

Not Regulated ADR

Exception: If in containers of 5L or less for liquids or 5KG or less for Solids these items may be shipped as not regulated [additional general packaging requirements must be met see

ADR special provision 375]

ICAO / IATA / IMDG / IMO Not Regulated

> Exception: If in containers of 5L or less for liquids or 5KG or less for solids these items may be shipped as not regulated [additional general packaging requirements must be met see

ICAO/IATA special provision A197]

Exception: If in containers of 5L or less for liquids or 5KG or less for solids these items may

be shipped as not regulated [additional general packaging requirements must be met see

IMDG code 2.10.2.7]

# **Section 15: REGULATORY INFORMATION**

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

European Union

#### International Inventories

For further information, please contact: Supplier (manufacturer/importer/downstream user/distributor)

#### 15.2 Chemical Safety Assessment

No information available.

# **Section 16: OTHER INFORMATION**

# Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under sections 2 and 3

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H413 - May cause long lasting harmful effects to aquatic life

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H372 - Causes damage to organs through prolonged or repeated exposure if inhaled

H411 - Toxic to aquatic life with long lasting effects

H361f - Suspected of damaging fertility

#### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average)
STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

Revision Date Dec-08-2015

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**