SAFETY DATA SHEET

Print Date	Issuing Date	Revision Number
Jan-30-2019	Dec-12-2018	1

Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: Majestic DC Black

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

Recommended uses: Printing operations

1.3 Details of the supplier of the safety data sheet

#16-20 Wertheim Crt. Richmond Hill,
ON L4B 3A8

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Section 2. HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

According to Regulation (CE) No 1272/2008

Acute toxicity - Inhalation (Vapors)	Category 4 - (H332)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Chronic aquatic toxicity	Category 3 - (H412)
Flammable liquids	Category 3 - (H226)

2.2 Label Elements

Signal Word
Danger

Hazard Statements

H318 – Causes serious eye irritation
H332 – Harmful if inhaled
H335 - May cause respiratory irritation
H412 - Harmful to aquatic life with long lasting effects
H226 - Flammable liquid and vapor

Precautionary Statements
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking 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

3.1 Mixtures

Component	EC No.	CAS-No	Weight %	Classification According to Regulation (EC) No. 1272/2008 (CLP)	REACH No	Note
Ethyl Lactate	202-598-0	97-64-3	30-60	Eye Dam. 1 (H318) STOT SE 3 (H335) Flam. Liq. 3 (H226)	No data available	1
Propyl-S-(-)-2-hydroxy propionate	-	53651-69-7	10 - 30	Eye Dam. 1 (H318)	No data available	
Cyclohexane	203-631-1	108-94-1	10 - 30	Flam. Liq. 3 (H226) Acute Tox. 4 (H332)	No data available	1
C.I. Solvent Black 29	403-720-7	117527-94-3	10 - 30	Aquatic Chronic 2 (H411)	No data available	

Note
1. Substance with a Community workplace exposure limit

Full text of R-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 contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.
Inhalation	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 symptoms and effects, both acute and delayed

Note to Physician Treat Symptomatically.

Section 5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

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.

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 precaution, 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 For emergency 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 can not be contained.

6.3 Methods and materials 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 containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. Keep out of the reach of children.

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	The United Kingdom
Cyclohexanone 108-94-1	STEL: 20 ppm STEL: 82 mg/m^3 TWA: 10 ppm TWA: 41 mg/m^3 Skin

Component	France
Cyclohexanone 108-94-1	TWA/VME: 10 ppm (restrictive limit) TWA/VME: 40.8 mg/m^3 (restrictive limit) STEL/VLCT: 20 ppm (restrictive limit) STEL/VLCT: 81.6 mg/m^3 (restrictive limit)

Component	Germany
Cyclohexanone 108-94-1	TWA/AGW: 20 ppm TWA/AGW: 80 mg/m^3 Skin

Component	Spain
Cyclohexanone 108-94-1	STEL/VLA-EC: 20 ppm STEL/VLA-EC: 82 mg/m^3

	TWA/VLA-ED: 10 ppm TWA/VLA-ED: 41 mg/m^3 Skin

Component	Italy
Cyclohexanone 108-94-1	TWA: 10 ppm TWA: 40.8 mg/m^3 STEL: 20 ppm STEL: 81.6 mg/m^3 Skin

Component	Portugal
Cyclohexanone 108-94-1	STEL/VLE-CD: 50 ppm TWA/VLE-MP: 20 ppm Skin

Component	The Netherlands
Cyclohexanone 108-94-1	STEL: 50 mg/m^3 Skin

Component	Finland
Ethyl lactate 97-64-3	TWA: 5 ppm TWA: 25 mg/m^3 STEL: 10 ppm STEL: 49 mg/m^3
Cyclohexanone 108-94-1	TWA: 10 ppm TWA: 41 mg/m^3 STEL: 20 ppm STEL: 82 mg/m^3 Skin

Component	Denmark
Cyclohexanone 108-94-1	TWA: 10 ppm TWA: 40 mg/m^3 Skin

Component	Austria
Cyclohexanone 108-94-1	STEL/KZW: 20 ppm STEL/KZW: 80 mg/m^3 TWA/TMW: 5 ppm TWA/TMW: 20 mg/m^3 Skin

Component	Switzerland
Cyclohexanone 108-94-1	STEL/KZW: 50 ppm STEL/KZW: 200 mg/m^3

	TWA/MAK: 25 ppm TWA/MAK: 100 mg/m^3 Skin

Component	**Poland**
Cyclohexanone 108-94-1	NDSCh: 80 mg/m^3 TWA/NDS: 40 mg/m^3 Skin

Component	**Norway**
Cyclohexanone 108-94-1	TWA: 20 ppm TWA: 80 mg/m^3 Skin

Component	**Ireland**
Cyclohexanone 108-94-1	TWA: 10 ppm TWA: 40.8 mg/m^3 STEL: 20 ppm^3 STEL: 81.6 mg/m Skin

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) 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. Safety glasses with side-shields. Goggles. Face-shield. Avoid contact with eyes. Ensure that eyewash stations and safety showers are close to the workstation location.

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 Important health, safety, and environmental information

Physical State	Liquid	**Appearance**	Colored Liquid
Odor	Characteristic	**Odor Threshold**	No information available

Property	Values	Remarks
pH		No data available
Melting point/freezing point		No data available
Boiling point/Boiling Range	> 149 °C / 300 °F	
Flash Point	44 °C / 111 °F	Tag closed cup (Minimum)
Evaporation rate		No data available
Flammability Limit in Air		
Upper flammability limit		No data available
Lower flammability limit		No data available
Vapor Pressure		No data available
Vapor Density		No data available
Specific Gravity	1.01	
Water Solubility		No data available
Solubility in other solvents		No data available
Partition coefficient: n-octanol/water		No data available
Autoignition Temperature		No data available
Decomposition Temperature		No data available
Kinematic viscosity		No data available
Dynamic viscosity		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 conditions

10.4 Conditions to avoid

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. TOXICOLOGY INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

Inhalation	There is no data for this product.
Eye Contact	There is no data for this product.
Skin Contact	There is no data for this product.
Ingestion	There is no data for this product.
Unknown Acute Toxicity	92.5 % 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)	2,286.00 mg/kg
ATEmix (dermal)	3,962.00 mg/kg
ATEmix (inhalation-dust/mist)	2.63mg/L
ATEmix (inhalation-vapor)	19.00 mg/L

Unknown Acute Toxicity

92.5 % of the mixture consists of ingredient(s) of unknown toxicity.
10 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
10% of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
92.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
82.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
82.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component	**Oral LD50**
Ethyl Lactate 97-64-3	>2000 mg/kg (Rat)
Propyl-S-(-)-2-hydroxy propionate 53651-69-7	>2000 mg/kg (Rat)
Cyclohexanone 108-94-1	800 mg/kg (Rat)

Component	**Oral LD50**
Ethyl lactate 97-64-3	>5000 mg/kg (Rat)
Propyl-S-(-)-2-hydroxy propionate 53651-69-7	>2000 mg/kg (Rat)

Component	**Inhalation LC50**

Cyclohexanone 108-94-1	8000 ppm (Rat) 4h 10.7 mg/L (Rat) 4 h

Skin corrosion/irritation	There is no data for this product
Eye damage/irritation	There is no data for this product
Sensitization	There is no data for this product
Mutagenic Effects	There is no data for this product
Carcinogenic effects	There is no data for this product
Reproductive Effects	There is no data for this product
STOT – single exposure	There is no data for this product
STOT – repeated exposure	There is no data for this product
Aspiration Hazard	No information available.

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Harmful 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
Cyclohexanone 108-94-1	96h EC50 Chlorella vulgaris: 20 mg/L

Component	Fish
Cyclohexanone 108-94-1	96h LC50 Pimephales promelas: 481 - 578 mg/L [flow-through]

Component	Fish
Cyclohexanone 108-94-1	24h EC50 Daphnia magna: 800 mg/L

12.2 Persistence and degradability

No information available

12.3 Bio accumulative potential

No information available

Component	Partition coefficient
Propyl Alcohol	0.34

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, bio accumulating or toxic (PBT). This mixture contains no substance considered to be very persistent or very bio accumulating (vPvB).

12.6 Other adverse effects

No information available

Section 13. DISPOSAL CONSIDERATIONS

13.1 Water treatment methods

Waste from residues/unused products	Contain and dispose of waste according to local regulations.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or

Section 14. TRANSPORT CONSIDERATIONS

ADR

14.1 UN/ID-No	UN1210
14.2 Proper shipping name	Printing Ink
14.3 Hazard Class	3
14.4 Packing group	III

ICAO/IATA/IMDG/IMO

14.1 UN/ID-No.	UN1210
14.2 Proper shipping name	Printing Ink
14.3 Hazard Class	3
14.4 Packing group	III

Section 15. REGULATORY INFORMATION

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

European Union

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

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

H226 - Flammable liquid and vapor
H332 - Harmful if inhaled
H411 - Toxic to aquatic life with long lasting effects
H318 - Causes serious eye damage
H335 - May cause respiratory irritation

Legend – Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	Time-weighted average
STEL	Short Term Exposure Limit
Ceiling	Maximum limit value

Issuing Date	12-December-2018

Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1907/2006

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Date Sheet

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