

## SAFETY DATA SHEET

Classification according to the regulation OSHA 29 CFR 1910.1200 HCS 2012

Issuing Date 13-Apr-2017

Revision date 13-Apr-2017

Revision Number 3

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Product Identifier

Product name DIGIPRIME 680  
Product code DP680

#### Recommended use of the chemical and restrictions on use

Recommendations on Use Industrial use  
Uses advised against No information available

#### Details of the supplier of the safety data sheet

Manufacturer Michelman, Inc.  
9080 Shell Road  
Cincinnati, Ohio 45236  
(513)793-7766

#### Emergency Telephone Number

Emergency Telephone CHEMTREC: +1-703-741-5970 (INTERNATIONAL)  
1-800-424-9300 (NORTH AMERICA)

### 2. HAZARDS IDENTIFICATION

#### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization	Category 1B
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Signal word WARNING

Hazard statements May cause an allergic skin reaction

#### Symbols/Pictograms



**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective gloves

**Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label)  
IF ON SKIN: Wash with plenty of soap and water  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards Not Otherwise Classified (HNOC)**

Not applicable

**OTHER INFORMATION**

May be harmful if swallowed  
Harmful to aquatic life with long lasting effects

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical nature** Primer for digital printing

Formulas are confidential and proprietary. Therefore, a percent range is provided for the concentration of each classified component in this mixture.

Chemical name	CAS No.	Weight-%	GHS Classification
Polyethylenimine		4-10	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411) Skin Sens. 1B (H317)

**4. FIRST AID MEASURES****FIRST AID MEASURES**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Consult a physician if necessary.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	Rinse mouth. If symptoms persist, call a physician.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms and Effects** No information available.

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

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Extinguishing media which must not be used for safety reasons**

None.

**Specific hazards arising from the chemical**

No information available.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Ensure adequate ventilation. Avoid contact with eyes, skin and clothing. Use personal protective equipment as required.
<b>Environmental precautions</b>	Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained.
<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers.

## **7. HANDLING AND STORAGE**

**Precautions for safe handling**

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing. Use personal protective equipment as required.
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**Conditions for safe storage, including any incompatibilities**

<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.
<b>Incompatible Products</b>	None known based on information supplied.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b><u>Exposure guidelines</u></b>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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**Appropriate engineering controls**

<b>Engineering Measures</b>	Showers Eyewash stations Ventilation systems.
<b>Environmental exposure controls</b>	Local authorities should be advised if significant spillages cannot be contained

**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Tight sealing safety goggles.
<b>Skin and body protection</b>	Long sleeved clothing. Protective gloves.
<b>Respiratory protection</b>	No special protective equipment required.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State	liquid
Appearance	clear
Odor	No information available
Freezing Point	0 °C
Odor Threshold	No information available
Vapor Pressure	No information available
Vapor Density	No information available
pH	10.0 - 12.0
Density	8.46 lb/gal
Melting Point / Melting Range	No information available
Boiling Point / Boiling Range	No data available
Flash Point	Not flammable
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available
Specific Gravity	1.0
Water Solubility	No data available
Partition Coefficient: n-octanol/water	No information available
Autoignition Temperature	No data available
Decomposition Temperature	No information available
Viscosity	15 - 25 cps

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Do not freeze

### Incompatible materials

None known based on information supplied.

**Hazardous decomposition products**  
None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

Inhalation	Not an expected route of exposure.
Eye contact	No known effect based on information supplied.
Skin contact	May cause sensitization by skin contact.
Ingestion	No known effect based on information supplied.

#### Acute toxicity

##### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Polyethylenimine	2200 mg/kg ( Rat )	-	-

### Information on toxicological effects

Symptoms	None known.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen
Irritation	None known based on information supplied.
Sensitization	May cause sensitization by skin contact.
Mutagenic Effects	None known based on information supplied.
Reproductive toxicity	None known based on information supplied.
STOT - single exposure	None known based on information supplied
STOT - repeated exposure	None known based on information supplied.
Aspiration Hazard	None known based on information supplied.

#### Numerical measures of toxicity - Product Information

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

ATEmix (oral)	4765 mg/kg
ATEmix (dermal)	100449 mg/kg
ATEmix (inhalation-gas)	234380 mg/l
ATEmix (inhalation-dust/mist)	167.8 mg/l

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

1.30505 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
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Polyethylenimine		LC50 96 7.1 mg/L	EC20 0.5hr 60 mg/L	EC50 48 8.84 mg/L
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**Persistence and degradability** Persistence and degradability is not known based on information supplied.

**Mobility** The mobility of this product has not been determined

**Bioaccumulation** Bioaccumulation potential is not known based on information supplied

**Other adverse effects**

**Endocrine system** This product does not contain any known or suspected endocrine disruptors

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal of wastes** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging** Dispose of in accordance with local regulations.

### 14. TRANSPORT INFORMATION

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

TSCA (USA)	Complies
DSL (Canada)	Complies
EINECS (Europe)	Complies
ENCS (Japan)	Complies
IECSC (China)	Complies
KECL (Korea)	Complies
PICCS (Philippines)	Complies
AICS (Australia)	Complies
ERMA (New Zealand)	Complies
Taiwan	Complies

**Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### Clean Water Act

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) and Volatile Organic Compounds (VOCs) (see 40 CFR 61)

Chemical name	CAS No.	Weight-%	VOC chemical
METHANOL	67-56-1	.2987	Yes

Chemical name	CAS No.	Weight-%	HAPS chemical
METHANOL	67-56-1	.2987	Yes

#### CERCLA

Chemical name	Hazardous Substances Reportable Quantities	Extremely Hazardous Substances RQs
METHANOL 67-56-1	5000 lb	

#### California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

### 16. OTHER INFORMATION

**HMIS**                      Health hazard 2                      Flammability 0                      Stability 0                      PPE B

Prepared by                      Michelman, Inc.

Revision date                      13-Apr-2017

Reason for revision                      No information available

#### Disclaimer

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**End of Safety Data Sheet**