

SAFETY DATA SHEET

Classification according to the regulation OSHA 29 CFR 1910.1200 HCS 2012

Issuing Date 29-Aug-2018

Revision date 29-Aug-2018

Revision Number 8

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

Product Identifier

Product name DIGIPRIME 050
Product code DP050

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 |
|--------------------|-------------|

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

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

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

| | |
|----------------------------------|---|
| Personal precautions | Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. |
| Environmental precautions | 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. |
| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Pick up and transfer to properly labeled containers. |

7. HANDLING AND STORAGE

Precautions for safe handling

| | |
|-----------------|---|
| Handling | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing. Use personal protective equipment as required. |
|-----------------|---|

Conditions for safe storage, including any incompatibilities

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|--|---|
| <u>Exposure guidelines - U.S.</u> | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|--|---|

Appropriate engineering controls

| | |
|--|--|
| Engineering Measures | Showers Eyewash stations Ventilation systems. |
| Environmental exposure controls | Local authorities should be advised if significant spillages cannot be contained |

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------|--|
| Eye/Face Protection | Tight sealing safety goggles. |
| Skin and body protection | Long sleeved clothing. Protective gloves. |
| Respiratory protection | No special protective equipment required. |
| Hygiene Measures | 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 | 8.3-8.4 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

| | |
|-------------------|------------------------------------|
| 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 MAY BE HARMFUL IF SWALLOWED.

Acute toxicity

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|------------------|-----------------------------------|-------------|-----------------|
| Polyethylenimine | 500 - 2000 mg/kg (Rat) (OECD 423) | - | - |

Information on toxicological effects

Symptoms None known.

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

Harmful to aquatic life with long lasting effects

1.0064 % 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) |
|------------------|-------------------|---------------------|----------------------------|----------------------------|
| Polyethylenimine | | LC50 (96h) 7.1 mg/L | EC20 (0.5h) 60 mg/L | EC50 (48h) 8.84 mg/L |

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
- 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

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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 | |

16. OTHER INFORMATION

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

Prepared by Michelman, Inc.

Revision date 29-Aug-2018

Reason for revision No information available

Disclaimer

The information provided in this data sheet is based on present scientific and technical knowledge and is accurate to the best of Michelman's 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. 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. Michelman makes no warranty of any kind, express or implied, including warranties of merchantability or fitness for a particular purpose, nor any warranty concerning the safe use of this material in the buyer's/user's process or in combination with other substances. In no case shall the descriptions, information, data, or designs provided be considered a part of Michelman's terms and conditions of sale. Since the conditions for the use of the material are not under Michelman's control, it is the buyer's/user's duty to determine the conditions necessary for the safe use of the material. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the material.

California Proposition 65



WARNING! This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

| | |
|----------------------|----------------------------------|
| Chemical name | California Proposition 65 |
| METHANOL 67-56-1 | Developmental |