

SAFETY DATA SHEET

Classification according to the regulation OSHA 29 CFR 1900.1200 HCS 2012

Issuing Date 12-Nov-2014

Revision date 12-Nov-2014

Revision Number 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product Identifier**

Product name TOPAZ 17 SOLUTION
Product code TOPAZ17S

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: +1-703-527-3887 (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)

Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Flammable Liquids	Category 3

Signal Word DANGER

Hazard statements Causes serious eye damage
May cause respiratory irritation. May cause drowsiness or dizziness
May be harmful if swallowed

Physical Hazards Flammable liquid and vapor



Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion-proof electrical/ventilating/lighting/equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Keep cool

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor/physician
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician if you feel unwell
 In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
 Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

Not applicable

OTHER INFORMATION

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation Primer for use with HP Indigo press s2000.

Michelman 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
N-PROPANOL	71-23-8	60-100	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Dam. 1 (H318)

4. FIRST AID MEASURES

FIRST AID MEASURES

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately .
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.
Inhalation	Move to fresh air. Consult a physician .
Ingestion	Rinse mouth. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects	No information available.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Extinguishing media which shall not be used for safety reasons

Keep away from heat and sources of ignition.

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes.

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. Avoid contact with the skin and the eyes. Use personal protective equipment.
Environmental precautions	Do not allow material to contaminate ground water system.
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling	Ensure adequate ventilation. Wear personal protective equipment. Keep away from heat, sparks and open flame. - No smoking.
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Conditions for safe storage, including any incompatibilities

Storage	Keep in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep at temperatures above 5°C.
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Incompatible Products

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure guidelines**

Chemical name	ACGIH TLV	ACGIH OEL (STEL)	OSHA PEL	OSHA STEL	NIOSH IDLH	Japan
N-PROPANOL	TWA: 100 ppm		TWA: 200 ppm TWA: 500 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 500 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 625 mg/m ³		IDLH: 800 ppm TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 625 mg/m ³	

Appropriate engineering controls**Engineering Measures**

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment**Eye/face Protection**

Tightly fitting safety goggles.

Skin and body protection

Long sleeved clothing. Protective gloves.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures

Remove and wash contaminated clothing before re-use. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	liquid
Appearance	light yellow
Odor	Alcohol
Freezing Point	0 °C
Odor Threshold	No information available
Vapor Pressure	19
Vapor Density	No information available
pH	Not determined
Density	no data available
Melting/Freezing Point	no data available
Boiling Point/Boiling Range	No data available

Flash Point	23-26 °C
Evaporation Rate	no data available
Flammability (solid, gas)	no data available
Flammability Limits in Air	
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available
Specific Gravity	No information available
Water Solubility	no data available
Partition Coefficient: n-octanol/water	0.25 - 0.34
Autoignition Temperature	no data available
Decomposition Temperature	No information available
Viscosity	70-90

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

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	Avoid breathing vapors or mists.
Eye contact	Severely irritating to eyes.
Skin contact	There is no data available for this product.
Ingestion	There is no data available for this product.

Acute toxicity

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
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N-PROPANOL 71-23-8	1870 mg/kg (Rat)	-	13548 ppm (Rat) 4 h
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Information on toxicological effects

Symptoms No information available.

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 Irritating to eyes.

Sensitization No information available.

Mutagenic Effects No information available.

Reproductive toxicity No information available.

STOT - single exposure Lungs.

STOT - repeated exposure No information available.

Aspiration Hazard No information available.

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 2253 mg/kg
ATEmix (inhalation-dust/mist) 65292 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

16.9915% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
N-PROPANOL 71-23-8		LC50= 4480 mg/L Pimephales promelas 96 h	EC50 3339 - 3977 mg/L 48 h EC50 = 3642 mg/L 48 h

Persistence and degradability No information available.

Mobility No information available

Bioaccumulation

Chemical name	Log Pow
N-PROPANOL 71-23-8	0.25 - 0.34

Other adverse effects

Endocrine system None known

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). RCRA waste code: D001.

Contaminated Packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT UN1274, Propyl Alcohol, Class 3, PG III
IATA UN1274, Propyl Alcohol, Class 3, PG III
IMDG UN1274, Propyl Alcohol, Class 3, PG III

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 This product does not comply with TECS

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 Yes
Sudden release of pressure hazard No
Reactive Hazard No

Clean Water Act

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ethylene diamine 107-15-3	5000 lb			X

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

Chemical name	CAS-No	Weight %	HAPS data	Volatile organic compounds	Class 1 Ozone Depletors	Class 2 Ozone Depletors
N-PROPANOL	71-23-8	83		Present		
Ethylene diamine	107-15-3	.0085		Present		

CERCLA

Chemical name	Hazardous Substances Reportable Quantities	Extremely Hazardous Substances RQs	RQ
Ethylene diamine 107-15-3	5000 lb	5000 lb	RQ 5000 lb final RQ RQ 2270 kg final RQ

California Prop. 65

This product does not contain any Proposition 65 chemicals

16. OTHER INFORMATION

HMIS **Health hazard 2** **Flammability 4** **Stability 0** **PPE H**

Prepared by Michelman, Inc.

Revision date 12-Nov-2014

Reason for revision No information available

Disclaimer

The information provided on this MSDS 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 Material Safety Data Sheet