

# SAFETY DATA SHEET

Issuing Date 01-Aug-2014 Revision Date 01-Aug-2014 Revision Number 0

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

**GHS** product identifier

Product Name Aeon Plate Developer

Other means of identification

Product Code(s) 1A10250 and 1A10252

UN-Number UN1814

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Thermal CtP Developer for Industrial Use

Uses advised against No information available

Supplier's details

Supplier Address
Presstek LLC
55 Executive Drive

Hudson, NH 03051 Phone: (603) 595-7000

**Emergency telephone number** 

**Emergency Telephone** 

Number

Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

## Classification

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

Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1

## GHS Label elements, including precautionary statements

### **Emergency Overview**

Signal Word Danger

**Hazard Statements** 

Causes severe skin burns and eye damage

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Appearance Clear

Physical State Liquid.

Odor Slight

### **Precautionary Statements**

#### Prevention

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash face, hands and any exposed skin thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.

#### **General Advice**

- Immediately call a POISON CENTER or doctor/physician.
- Specific treatment (see supplemental first aid instructions on this label)

#### **Eyes**

- 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.

#### Skin

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

### Ingestion

• IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### Storage

· Store locked up.

### Disposal

• Dispose of contents/container to an approved waste disposal plant.

### **Hazard Not Otherwise Classified (HNOC)**

Not applicable

## Other information

1.81265% of the mixture consists of ingredient(s) of unknown toxicity.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Sodium metasilicate	6834-92-0	1-10	*
Glycerol	56-81-5	1-10	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

### **Description of necessary first-aid measures**

#### WPS-MAI-002 - Aeon Plate Developer

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes.

**Skin Contact** Immediate medical attention is required. Wash off immediately with soap and plenty of

water removing all contaminated clothes and shoes.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

Ingestion Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Consult a physician if necessary

## Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Water fog. Foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific Hazards Arising from the Chemical

No information available.

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

### **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** Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with

skin, eyes and clothing. Ensure adequate ventilation.

**Environmental Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological Information. Prevent product from entering drains.

Do not flush into surface water or sanitary sewer system.

### Methods and materials for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Soak up with inert absorbent material. 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 skin, eyes and clothing. Wear personal protective equipment. Avoid breathing vapors or mists. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

incompatible materials. Keep container closed when not in use. Keep at temperatures

above 5°C / 41°F

Incompatible Products Strong acids.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol	-	TWA: 15 mg/m <sup>3</sup> mist, total	-
56-81-5		particulate	
		TWA: 5 mg/m <sup>3</sup> mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
		total particulate	
		(vacated) TWA: 5 mg/m <sup>3</sup> mist,	
		respirable fraction	

### **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** Impervious clothing. Impervious gloves.

**Respiratory Protection**Use only with adequate ventilation. In case of insufficient ventilation wear suitable

respiratory equipment.

**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 StateLiquidAppearanceClearOdorSlightOdor ThresholdNo information available

Property	<u>Values</u>	Remarks/ - Method
pH	13.4 - 13.6	None known
Melting Point/Range	>100 °C	None known
Boiling Point/Boiling Range	>212 °F	None known
Flash Point	Not applicable.	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known

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1.1 g/cm<sup>3</sup> **Specific Gravity** None known Easily soluble Water Solubility None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition Temperature** No data available None known **Decomposition Temperature** No data available None known **Viscosity** not determined None known

Flammable Properties Not flammable

Explosive Properties No data available Oxidizing Properties No data available

**Other information** 

VOC Content (%) No data available

## 10. STABILITY AND REACTIVITY

## Reactivity

No data available.

## **Chemical stability**

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### **Conditions to avoid**

Incompatible products.

## **Incompatible materials**

Strong acids.

### **Hazardous decomposition products**

Carbon oxides. Smoke

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Product Information** 

**Inhalation** May cause irritation of respiratory tract.

**Eye Contact** Causes serious eye damage. Corrosive to the eyes and may cause severe damage

including blindness.

**Skin Contact**Corrosive. Causes severe skin burns.
Ingestion
Can burn mouth, throat, and stomach.

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#### WPS-MAI-002 - Aeon Plate Developer

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium metasilicate	= 600 mg/kg (Rat)	-	-
Glycerol	= 12600 mg/kg (Rat)	> 21900 mg/kg (Rat)	-

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Sensitization** No information available. **Mutagenic Effects** No information available.

**Carcinogenicity** Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard
No information available.
No information available.
No information available.

### Numerical measures of toxicity - Product

**Acute Toxicity** 1.81265% of the mixture consists of ingredient(s) of unknown toxicity.

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

**LD50 Oral**7647 mg/kg; Acute toxicity estimate **LD50 Dermal**524551 mg/kg; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna (Water
			Microorganisms	Flea)
Sodium metasilicate		LC50 96 h: = 210 mg/L semi-		EC50 96 h: = 216 mg/L
6834-92-0		static (Brachydanio rerio)		(Daphnia magna)
		LC50 96 h: = 210 mg/L		
		(Brachydanio rerio)		
Glycerol		LC50 96 h: 51 - 57 mL/L		EC50 24 h: > 500 mg/L
56-81-5		static (Oncorhynchus		(Daphnia magna)
		mykiss)		

Persistence and Degradability No information available.

#### Bioaccumulation

Chemical Name	Log Pow
Glycerol	-1.76

### **Other Adverse Effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations

**Contaminated Packaging** Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

DOT

UN-Number UN1814

Proper shipping name Potassium hydroxide solution

Hazard Class 8
Packing Group ||

**Description** UN1814, Potassium hydroxide solution, 8, II

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Emergency Response Guide 154

Number

TDG

UN1814

Proper Shipping Name Potassium hydroxide solution

Hazard Class 8
Packing Group | |

**Description** UN1814, Potassium hydroxide solution, 8, II

MEX

UN-Number UN1814

Proper Shipping Name Potassium hydroxide solution

Hazard Class 8
Packing Group ||

**Description** UN1814, Potassium hydroxide solution, 8, II

**ICAO** 

UN-Number UN1814

Proper shipping name Potassium hydroxide solution

Hazard Class 8
Packing Group | |

**Description** UN1814, Potassium hydroxide solution, 8, II

<u>IATA</u>

UN1814

Proper Shipping Name Potassium hydroxide solution

Hazard Class 8
Packing Group || ERG Code 8|

**Description** UN1814, Potassium hydroxide solution, 8, II

IMDG/IMO

UN-Number UN1814

Proper Shipping Name Potassium hydroxide solution

Hazard Class 8
Packing Group ||

**EmS No.** F-A, S-B

**Description** UN1814, Potassium hydroxide solution, 8, II

RID

UN-Number UN1814

Proper Shipping Name Potassium hydroxide solution

Hazard Class 8
Packing Group || Classification Code C5

**Description** UN1814, Potassium hydroxide solution, 8, II

<u>ADR</u>

UN-Number UN1814

Proper Shipping Name Potassium hydroxide solution

Hazard Class 8
Packing Group II
Classification Code C5
Tunnel Restriction Code (E)

**Description** UN1814, Potassium hydroxide solution, 8, II, (E)

**ADN** 

Proper Shipping Name Potassium hydroxide solution

Hazard Class 8

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Packing Group II Classification Code C5

**Description** UN1814, Potassium hydroxide solution, 8, II

Limited Quantity 1 L

## 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA Complies

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

## **U.S. Federal Regulations**

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).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Glycerol	X	X			X
Potassium hydroxide	X	X	Х		Х

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
NFPA	Health Hazard 3	Flammability 1	Instability 0	Physical and Chemical Hazards -	
<b>HMIS</b>	Health Hazard 3	Flammability 1	Physical Hazard 0	Personal Protection X	

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Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110

1-800-572-6501

Issuing Date01-Aug-2014Revision Date01-Aug-2014Revision NoteInitial Release.

## General Disclaimer

The information provided on this SDS 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 Data Sheet** 

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