

PRECISION SURFACES INTERNATIONAL, INC.

922 Ashland Houston, TX 77008-6734

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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Name: Diamond Extender, Water Soluble
Product Identifier: PSI-546-1
PSI-546-4
Supplier: Precision Surfaces International, Inc.
922 Ashland, Houston, TX 77008-6734
Emergency Telephone: Infotrac 800-535-5053
Recommended Use: Thinner/Lubricant

SECTION 2: Hazard(s) Identification

Potential Health Effects

Eye Contact: May cause irritation

Skin Contact: Repeated or prolonged skin contact may cause irritation

Inhalation: Vapor and mist may irritate nose and throat. Prolonged inhalation may cause dizziness.

Ingestion: May cause gastrointestinal irritation. Nausea and vomiting may occur.

Primary Route(s) of Entry: Inhalation at high temperatures, eye contact, skin contact.

Target Organs: Respiratory passages at high temperatures, eyes, skin.

Medical Conditions Aggravated by Long-Term Exposure: Individuals with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of chemical.

Carcinogenicity: IARC, NTP, and OSHA do not list this product or its ingredients as carcinogens.

SECTION 3: Composition/Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

Ingredient	Identifiers	%	Classifications According to Regulation/Directive
Polyalkylene glycol monobutyl ether	CAS: 9038-95-3	60 – 70	OSHA HCS 2012: Eye Irrit. 2
Butyl alcohol	CAS: 71-36-3	< 0.5	OSHA HCS 2012: Skin Irrit. 2; Eye Dam. 1;

	EC Number: 200-751-6 EU Index: 603-004-00-6 UN: UN1120		Acute Tox. Oral 4; STOT SE 3: Narc.; STOT SE 3: Resp. Irrit.; Flam. Liq. 3
Fragrance		<= 0.1	OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; Asp. Tox. 1; Flam. Liq. 3
Ethylene glycol monobutyl ether	CAS: 111-76-2 EC Number: 203-905-0 EU Index: 603-014-00-0	<= 0.1	OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2; Acute Tox. Oral 4; Acute Tox. Dermal 4; Acute Tox. Inhal. 4
Diethylene glycol monobutyl ether	CAS: 112-34-5 EC Number: 203-961-6 EU Index: 603-096-00-8	<= 0.1	OSHA HCS 2012: Eye Irrit. 2
Phenol, p-methoxy-	CAS: 150-76-5 EC Number: 205-769-8 EU Index: 604-044-00-7	<= 0.01	OSHA HCS 2012: Eye Irrit. 2; Skin Sens. 1; Acute Tox. Oral 4

This product does not contain any additional significantly hazardous material according to UN GHS. Specific chemical names and/or the exact percentages of the composition have been withheld as a trade secret. This claim is in accordance with paragraph (i) of 29 CFR 1910.1200.

Key to abbreviations

CFR = Code of Federal Regulations

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

UN = United Nations

SECTION 4: First-aid Measures

Description of first aid measures

Inhalation

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eye

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Never give anything by mouth to an unconscious person. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel.

Most important symptoms and effects, both acute and delayed

Skin or eye irritation, stomach ache, nausea, dizziness, or headache.

Indication of any immediate medical attention and special treatment required

Notes to Physician

Treat symptomatically.

SECTION 5: Fire-fighting Measures

Suitable extinguishing media

In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing Media

None known. In case of fire use media as appropriate for surrounding fire.

Firefighting Procedures

Keep unauthorized personnel away. LARGE FIRES: Dike fire-control water for later disposal.

Special hazards arising from the substance or mixture**Unusual Fire and Explosion Hazards**

None expected.

Hazardous Combustion Products

Oxides of carbon.

Advice for firefighters

Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

SECTION 6: Accidental Release Measures

Protective equipment and emergency procedures**Personal Precautions**

Ventilate enclosed areas. Use appropriate Personal Protective Equipment (PPE). Do not walk through spilled material.

Emergency Procedures

Keep unauthorized personnel away. Stay upwind. Use normal clean up procedures.

Environmental precautions

LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

Methods and materials for containment and clean up**Containment/Cleanup Measures**

Absorb or cover with dry earth, sand or other noncombustible material and transfer to containers.

Reference to other sections

Refer to Section 8 Exposure Controls/Personal Protection and Section 13 Disposal Considerations.

Other Information

Caution: spill area may become slippery.

SECTION 7: Handling and Storage
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Precautions for safe handling**Handling**

Avoid contact with skin, eyes, and clothing. Use appropriate Personal Protective Equipment (PPE) Use good safety and industrial hygiene practices. Wash thoroughly after handling.

Conditions for safe storage including any incompatibilities

Storage

Keep container/package tightly closed in a cool, well-ventilated place. Keep at temperatures above freezing. Allowing freezing conditions may degrade product.

SECTION 8: Exposure Controls/Personal Protection

Control Parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Phenol, p-methoxy- (150-76-5)	TWAs	5 mg/m ³ TWA	5 mg/m ³ TWA	Not established
Ethylene glycol monobutyl ether (111-76-2)	TWAs	20 ppm TWA	5 ppm TWA; 24 mg/m ³ TWA	50 ppm TWA; 240 mg/m ³ TWA
Diethylene glycol monobutyl ether (112-34-5)	TWAs	10 ppm TWA (inhalable fraction and vapor)	Not established	Not established
Butyl alcohol (71-36-3)	TWAs	20 ppm TWA	Not established	100 ppm TWA; 300 mg/m ³ TWA
Butyl alcohol (71-36-3)	Ceilings	Not established	50 ppm Ceiling; 150 mg/m ³ Ceiling	Not established

Exposure Control Notations

OSHA

Ethylene glycol monobutyl ether (111-76-2): **Skin:** (prevent or reduce skin absorption)

NIOSH

Butyl alcohol (71-36-3): **Skin:** (Potential for dermal absorption)

Ethylene glycol monobutyl ether (111-76-2): **Skin:** (Potential for dermal absorption)

Exposure Controls

Engineering Measures/Controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment (PPE)

Respiratory

Under normal conditions, respiratory protection is not necessary. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

Wear chemical splash safety goggles.

Hands

Wear protective gloves nitrile or butyl.

Skin/Body

Wear protective gloves/protective clothing/eye protection/face protection.

General Industrial Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls

Prevent entry into waterways, sewers, basements or confined areas.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

SECTION 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	White to grey (may be dyed other colors)
Odor:	Mild odor
Odor Threshold:	No Data Available
pH:	9 to 10
Melting Point/Freezing Point:	<-20°C (<-4°F)
Boiling Point:	>130°C (>266°F)
Evaporation Rate:	No Data Available
Flash Point:	<200°C (<392°F) estimated
Flammability (solid, gas):	No Data Available
Flammable Limits (LEL):	No Data Available
Flammable Limits (UEL):	No Data Available
Vapor Pressure:	No Data Available
Vapor Density:	No Data Available
Specific Gravity/Relative Density:	1.05 to 1.2 @ 4°C (39.2°F) Water = 1
Water Solubility:	Insoluble
Solvent Solubility	Organic Solvent Soluble
Autoignition Temperature:	No Data Available
Decomposition Temperature:	No Data Available
Octanol/Water Partition Coefficient:	No Data Available
Viscosity:	No Data Available
Explosive Properties	No Data Available

SECTION 10: Stability and Reactivity**Reactivity**

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under normal temperatures and pressures.

Conditions to avoid

Keep at temperatures above freezing. Allowing freezing conditions may degrade product.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Incompatibility

No data available.

Hazardous decomposition products

Hazardous decomposition may occur during combustion, generating oxides of carbon,

SECTION 11: Toxicological Information
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Information on toxicological effects**Other Material Information**

No toxicological information is available for the material as a whole.

GHS Properties**Respiratory sensitization****Serious eye damage/Irritation****Acute toxicity****Aspiration Hazard****Carcinogenicity****Skin corrosion/Irritation****Skin sensitization****STOTRE****STOTSE****Toxicity for Reproduction****Germ Cell Mutagenicity****Classification**

OSHA HCS 2012 - Classification criteria not met

OSHA HCS 2012 - Eye Irritation 2

OSHA HCS 2012 - Acute Toxicity Classification criteria not met; Acute Toxicity Dermal Classification criteria not met; Acute Toxicity Inhalation Classification criteria not met; Acute Toxicity Oral Classification criteria not met

OSHA HCS 2012 - Classification criteria not met

OSHA HCS 2012 - Classification criteria not met

OSHA HCS 2012 - Classification criteria not met

OSHA HCS 2012 - Classification criteria not met

OSHA HCS 2012 - Classification criteria not met

OSHA HCS 2012 - Classification criteria not met

OSHA HCS 2012 - Classification criteria not met

OSHA HCS 2012 - Classification criteria not met

Potential Health Effects**Inhalation**

Acute (Immediate) - Under normal conditions of use, no health effects are expected.

Chronic (Delayed) - Under normal conditions of use, no health effects are expected.

Skin

Acute (Immediate) - May cause skin sensitization. Symptoms include redness, and skin rash. Under normal conditions of use, no health effects are expected.

Chronic (Delayed) - Repeated and prolonged exposure may cause sensitization. Under normal conditions of use, no health effects are expected.

Eye

Acute (Immediate) - Causes serious eye irritation.

Chronic (Delayed) - Under normal conditions of use, no health effects are expected.

Ingestion

Acute (Immediate) - Under normal conditions of use, no health effects are expected. Swallowing large amounts may cause injury.

Chronic (Delayed) - Under normal conditions of use, no health effects are expected.

Carcinogenic Effects

No component of this material in amounts greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, NTP, or OSHA.

Other information

While this mixture is not classified as a skin sensitizer, it does contain a sensitizing substance.

Key to abbreviations

IARC = International Agency for Research on Cancer

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

SECTION 12: Ecological Information

Toxicity

This product is not expected to have toxic effects on aquatic life. It is recommended that necessary precautions be taken to prevent release of this material into sewers, streams or bodies of water.

Persistence and degradability

This material is readily biodegradable.

Bioaccumulative potential

No indication of bioaccumulation potential.

Mobility in Soil

No data available.

Other adverse effects

No studies have been found.

Other Information

No data available.

SECTION 13: Disposal Considerations
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Waste treatment methods

Product waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport Information
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	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA

IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA
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Special precautions for user

None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This product is provided only in non-bulk containers.

Other information

This material is not a regulated hazardous material with respect to the following transportation regulations: United States Department of Transportation (US DOT), International Air Transport Association (IATA), or International Maritime Dangerous Goods (IMDG).

Key to abbreviations

NDA = No Data Available

SECTION 15: Regulatory Information

State Right To Know				
Component	CAS No.	MA	NJ	PA
Butyl alcohol	71-36-3	Yes	Yes	Yes
Diethylene glycol monobutyl ether	112-34-5	No	No	No
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	No	No	No
Ethylene glycol monobutyl ether	111-76-2	Yes	Yes	Yes
Phenol, p-methoxy-	150-76-5	Yes	Yes	Yes
Polyalkylene glycol monobutyl ether	9038-95-3	No	No	No

Inventory		
Component	CAS No.	TSCA
Butyl alcohol	71-36-3	Yes
Diethylene glycol monobutyl ether	112-34-5	Yes
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Yes
Ethylene glycol monobutyl ether	111-76-2	Yes
Phenol, p-methoxy-	150-76-5	Yes
Polyalkylene glycol monobutyl ether	9038-95-3	Yes

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed

Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

U.S. – OSHA – Specifically Regulated Chemicals

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

Environment

U.S. – CAA (Clean Air Act) – 1990 Hazardous Air Pollutants

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

U.S. - CERCLA/SARA – Hazardous Substances and their Reportable Quantities

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	5000 lb. final RQ; 2270 kg final RQ
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

U.S. - CERCLA/SARA – Radionuclides and Their Reportable Quantities

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

U.S. - CERCLA/SARA – Section 302 Extremely Hazardous Substances EPCRA RQs

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

U.S. - CERCLA/SARA – Section 302 Extremely Hazardous Substances TPQs

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed

Phenol, p-methoxy-	150-76-5	Not Listed
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U.S. - CERCLA/SARA – Section 313 – Emission Reporting

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	1.0 % de minimis concentration
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

U.S. - CERCLA/SARA – Section 313 – PBT Chemical Listing

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

United States - California

Environment

U.S. – California – Proposition 65 – Carcinogens List

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

U.S. – California – Proposition 65 – Developmental Toxicity

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

U.S. – California – Proposition 65 – Maximum Allowable Dose Levels (MADL)

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

U.S. – California – Proposition 65 – No Significant Risk Levels (NSRL)

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed

Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

U.S. – California – Proposition 65 – Reproductive Toxicity Female

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

U.S. – California – Proposition 65 – Reproductive Toxicity Male

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

United States - Pennsylvania

Labor

U.S. – Pennsylvania – RTK (Right to Know) – Environmental Hazard List

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

U.S. – Pennsylvania RTK (Right to Know) – Special Hazardous Substances

Polyalkylene glycol monobutyl ether	9038-95-3	Not Listed
Butyl alcohol	71-36-3	Not Listed
Diethylene glycol monobutyl ether	112-34-5	Not Listed
Ethylene glycol monobutyl ether	111-76-2	Not Listed
Ethanol, 2-(2-(2-butoxyethoxy)ethoxy)-	143-22-6	Not Listed
Phenol, p-methoxy-	150-76-5	Not Listed

US Federal Regulations

311/312 Hazard Categories

Fire Hazard: No Pressure Hazard: No Reactivity Hazard: No Immediate Hazard: No Delayed Hazard: No

SECTION 16: Other Information

Relevant Phrases (code & full text)

H319 Causes serious eye irritation

P264 Wash thoroughly after handling.

P281 Use personal protective equipment as required.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

The above information and recommendation are believed to be accurate and reliable. However, no warranty, either expressed or implied, is made as to its accuracy or completeness and none is made as to fitness of this material for any purpose. The manufacturer or supplier shall not be liable for damages to person or property resulting from its use. Nothing herein shall be construed as a recommendation for use in violation of any patent.

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