



SAFETY DATA SHEET

OSHA HCS (29 CFR 1910, 1200)

Section 1: Product and Company Identification

1.1 Product Identifier

GHS Product Identifier	Not Applicable
Chemical Name	Not Applicable
Trade Name	Formula MC
CAS No	Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s)	Optics cleaner solution
Uses advised against	None

1.3 Details of the supplier of the safety data sheet

Company Identification	Peca Products, Inc.
Telephone	(800)-999-7322
Fax	(608) 299-1827
E-Mail	sales@pecaproducts.com

1.4 Emergency telephone number

Emergency Phone No	Chemtrec 24 hr (800)424-9300
--------------------	------------------------------

Section 2: Hazards Identification

2.1 Classification of the substance or Mixture

OSHA HCS (29 CFR 1910 1200)	Not classified as dangerous for supply/use
-----------------------------	--

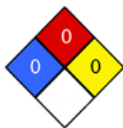
2.2 Label Elements

Hazard Symbol	None
---------------	------

2.3 Other Hazards

None

2.4 Additional Information



Health	0
Flammability	0
Physical Hazard	0

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

3.2 Mixtures

Hazardous Ingredient(s)	%W/W	CAS No.	Hazard statement(s)
Isopropyl Alcohol	17-20	67-63-0	Flammable liquid. Irritating to eyes May be harmful if swallowed
Water	73-80	7732-18-5	None Anticipated
Propylene Glycol	10	57-55-6	None Anticipated
other*

*Ingredients present at <0.1%

3.3 Additional Information

None

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation	If symptoms occur, obtain medical attention.
Skin Contact	Wash skin with water. If symptoms occur, obtain medical attention.
Eye Contact	If substance has got into the eyes, wash out with water. If symptoms occur, obtain medical attention.
Ingestion	Drink one glass of water. Do not induce vomiting. If symptoms occur, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed.

May cause eye irritation

4.3 Indication of the immediate medical attention and special treatment needed

None

Section 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media	
Unsuitable Extinguishing Media	None anticipated

5.2 Special hazards arising from the substance or mixture

None anticipated

5.3 Advice for fire-fighters

As appropriate for surrounding fire.
>90% Water

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Not normally required
6.2 Environmental precautions	Not normally required
6.3 Methods and material for containment and clean up	Contain and cover spilled substance with dry sand or earth or other suitable dry material. Transfer to a container for disposal or recovery. Provide adequate ventilation.
6.4 Reference to other sections	None
6.5 Additional information	None

Section 7: Handling and Storage

7.1 Precautions for safe handling	Wash affected skin with plenty of water. Remove contaminated clothing and wash clothing before reuse. Provide adequate ventilation. Avoid contact with skin, eyes or clothing.
7.2 Conditions for safe storage. Including any incompatibilities	
Storage Temperature	Store at room temperature
incompatible materials	None
7.3 Specific end use(s)	Optics cleaner solution

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)		STEL (ppm)		Note
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Isopropyl alcohol	67-67-0	400	200	xxx	400	xxx

LTEL: Long Term Exposure Limit: STEL: Short Term Exposure Limit

8.1.2 Recommended monitoring method NIOSH 1400

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Not normally required

8.2.2 Personal protection equipment

Eye/face protection



Not required under normal consumer use.
Industrial use: Safety glasses

Skin protection (hand protection/other)



Not required under normal consumer use.
Industrial use: Wear suitable gloves if prolonged skin contact is likely

Respiratory protection



Not required under normal consumer use.
Industrial use: in case of inadequate ventilation wear respiratory protection

Thermal hazards

Not normally required

8.2.3 Environmental Exposure Controls

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Color	Clear
Odor	Not available
Odor Threshold (ppm)	Not available
pH (Value)	7
Melting Point / Freezing Point (C)	Not available
Boiling point/boiling range (C)	Not determined
Flash Point (C)	37.7 (100 F)
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Explosive limit ranges	Not available
Vapor Pressure (Pascal)	Not available
Vapor Density (Air=1)	Not available
Density (g/ml)	Not available
Specific Gravity	0.95 @ 22 C
Solubility (Water)	Soluble
Solubility (other)	Not Known
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Temperature (C)	Not available
Decomposition Temperature	Not available
Kinematic Viscosity (mPas) @ 22C	<10
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

9.2 Other information

Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions
10.2 Chemical stability	Stable
10.3 Possibility of hazardous reactions	None anticipated
10.4 Conditions to avoid	Heat
10.5 Incompatible materials	None anticipated
10.6 Hazardous Decomposition Product(s)	Carbon Monoxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Substances

Not applicable

11.1.2 Mixtures

Acute toxicity	Not available
Irritation	Not available
Corrosivity	Not available
Sensitization	Not available
Repeated dose toxicity	Not available
Carcinogenicity	IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen
Mutagenicity	Not available
Toxicity for reproduction	Not available

11.1.3 Substances in preparations / mixtures

IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen. Isopropyl Alcohol (CAS No. 67.63.0)

Acute toxicity

Oral: LD50 = 5.84 g/kg (rat)
Inhalation: LC50 > 1000 ppm (rat) 6 hours
Dermal: LD50 = 16.4 ml/kg (rabbit) 24 hours

Irritant

Irritating to eyes

Sensitization

It is not a skin sensitizer

Repeated dose toxicity

NOAEL = 5,000 ppm (inhalation)

11.2 Other information

None known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Substances in preparations / mixtures

Isopropyl Alcohol (CAS 67-63-0)

Biodegradability

Biodegradable

Bioaccumulative potential

The product has no potential for bioaccumulation

Acute toxicity

LC50 (96 hour) 10,000 mg/l (Fathead minnow (*Pimephales promelas*)
LC50 24 hours > 10,000 mg/l (*Daphnia magna*)

Long Term Toxicity

NOEC: 3.37 µmol/l (*Daphnia magna*) (Growth rate)

12.2 Persistence and degradability

The organic part of the product is biodegradable

12.3 Bioaccumulative potential

The product has no potential for bioaccumulation

12.4 Mobility in soil

The product has high mobility in soil

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB

12.6 Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice

13.2 Additional information

None known

SECTION 14: TRANSPORT INFORMATION

In accordance with 49CFR 173 120(a)(5), ADR Annex A.2.2.3.1.1 Note 1; ICAO 2.3.1.3(c); IATA DGR 3.3.1.3(c); and IMO 2.3.1.3.3

14.1 DOT (DEPARTMENT OF TRANSPORTATION) Not classified as dangerous for transport

UN Number
Proper shipping name
Transport hazard class(s)
Packing Group
Hazard label(s)
Environmental hazards
Special precautions for user

14.2 Land transport (ADR/RID) Not classified as dangerous for transport

UN number
Proper Shipping Name
Transport hazard class(s)
Packing Group
Hazard label(s)
Environmental hazards
Special precautions for user

14.3 Sea Transport (IMDG) Not classified as dangerous for transport

UN number
Proper shipping name
Transport hazard class(s)
Packing group
Marine Pollutant
Special precautions for user

14.4 Air Transport (ICAO/IATA)

UN number 1993 N.O.S.
Proper shipping name Combustable Liquid N.O.S.
Transport hazard class(s)
Packing Group
Environmental hazards
Special precautions for user

14.5 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substance Control Act)	Inventory Status: All components listed or polymer exem
RCRA Hazard Waste Number (40 FCR 261.33)	None
US RCRA Hazard Class	None
SARA 311/312 - Hazard Categories	None
Fire Sudden Release Reactivity Immediate (acute)	Chronic (delayed)
SARA 313 - Toxic Chemicals (40 CFR 372)	None
SARA 302 - Extremely Hazardous Substances	None

SECTION 16: OTHER INFORMATION

Additional Information

None

The following sections contain revisions or new statements: 9.1

Information contained in the publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the products for their own particular purpose. Peca Products gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Peca Products accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Design cannot be assumed.

