

SAFETY DATA SHEET

Issuing Date: 01-Mar-2019 Version 14

Polyplast PY Series

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Polyplast PY Series

PΥ Product code

PY-064 PY-066 PY-114 PY-121 PY-127 PY-155 PY-164 PY-165 PY-180 PY-190 PY-205 Product Code(s)

PY-210 PY-230 PY-301 PY-311 PY-325 PY-814 PY-821 PY-825 PY-827 PY-830 PY-863

PY-864 PY-865 PY-866 PY-SB PY-TW PYS25309 PYS36919 PYS40514

Product Use Solvent Based Screen Printing Ink.

Manufactured by

FUJIFILM Manufacturing U.S.A., Inc.

20 West 14th Avenue

North Kansas City, MO. 64116 USA

Phone#: (913) 342-4060

Distributed in Canada by

FUJIFILM Canada, Inc.

600 Suffolk Ct.

Mississauga, Ontario L5R 4G4

website(s):

SDSs are available at the following https://www.fujifilmusa.com/support/msds/search

Company Phone Number U.S.A: 800-473-3854 Canada: 800-263-5018

Emergency Telephone Transport-CHEMTREC Inside NA: 800-424-9300

Transport-CHEMTREC Outside NA: 703-527-3887 Transport-CANUTEC Inside Canada: 613-996-6666

Medical Emergency (24 hour): 877-935-7387

EHS@fujifilm.com E-mail

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1A

Reproductive toxicity	Category 2
Flammable liquids	Category 3

GHS Label elements, including precautionary statements

Danger

Hazard Statements

Causes skin irritation
Causes serious eye damage
May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child
Flammable liquid and vapor



Precautionary Statements

Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

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

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/Bond container and receiving equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Use explosion-proof electrical (ventilation and lighting) equipment

Response

If exposed or concerned: Get medical advice/attention

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 skin irritation or rash occurs: Get medical advice/attention

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

Wash contaminated clothing before reuse

In case of fire: Use CO2, dry chemical, or foam to extinguish

Storage

Store locked up

Store in a well-ventilated place. Keep cool

Disposa

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not classified

Other hazards

May be harmful if swallowed

Unknown Acute Toxicity

19.49650904% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Cyclohexanone	108-94-1	10-30%
dicyclohexyl phthalate	84-61-7	1-5%
Solvent naphtha, light aromatic	64742-95-6	1-5%
1,2,4-Trimethylbenzene	95-63-6	0.5-1.5%

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice If symptoms persist, call a physician.

Eye contact In case of contact with substance, immediately flush eyes with running water for at least 30

minutes. Keep eye wide open while rinsing. Do not rub affected area. Call a physician

immediately.

Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get

medical advice/attention.

Inhalation Move to fresh air. Administer oxygen if breathing is difficult. If symptoms persist, call a

physician.

Ingestion IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON

CENTER or doctor/ physician.

Protection of First-aidersUse personal protective equipment.

Most important symptoms/effects, acute and delayed

May cause redness, itching, and pain. Burning feeling and temporary redness. May cause allergic skin reaction. Burning sensation. Redness.

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

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO2). Dry chemical. Alcohol resistant foam.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Flammable. Will be easily ignited by heat, sparks or flames. May cause sensitization by skin contact.

Hazardous Combustion Products

Carbon oxides. Hydrogen chloride. Nitrogen oxides (NOx).

Explosion Data

Sensitivity to Mechanical Impact none

Sensitivity to Static Discharge Yes

Protective Equipment and Precautions for Firefighters

Move containers from fire area if you can do it without risk.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Use personal protective equipment. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

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

Use personal protective equipment. Cover liquid spill with sand, earth or other

noncombustible absorbent material. Take precautionary measures against static

discharges. Pay attention to flashback. Use only non-sparking tools. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush

away traces with water.

Other information Water spray may reduce vapor; but may not prevent ignition in closed spaces.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Avoid breathing vapors or mists. Ensure adequate ventilation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid exposure during pregnancy.

Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA - Workplace
				Environmental Exposure
				Levels (WEELs) - TWAs
Cyclohexanone	STEL: 50 ppm	TWA: 50 ppm	IDLH: 700 ppm	
	TWA: 20 ppm	TWA: 200 mg/m ³	TWA: 25 ppm	
	S*	(vacated) TWA: 25 ppm	TWA: 100 mg/m ³	
		(vacated) TWA: 100 mg/m ³	_	
		(vacated) S*		
1,2,4-Trimethylbenzene			TWA: 25 ppm	
•			TWA: 125 mg/m ³	

Exposure controls

Engineering Measures Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles. Face-shield.

Skin and body protection Wear protective gloves/clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Not available

Not available

Not available

307 °F / 153 °C

provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Take off contaminated clothing and wash before

reuse. Regular cleaning of equipment, work area and clothing is recommended.

Freezing Point

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance According to product Odor Solvent

specification

Not available

Odor Threshold Not available Physical State @20°C Liquid

pH Not available

Specific Gravity

1.046 - 1.67

Flash point

109 °F / 43 °C

Decomposition temperature

Not available

Molecular Weight

Autoignition temperature

Boiling point / boiling range

Melting point / melting range

Flammability Limit in Air

upper 9.4 Lower 1.3

Oxidizing Properties Not available **Explosive Properties** Not available Insoluble in water Partition coefficient Solubility Not available **Evaporation rate** Not available Vapor Pressure 4 mmHg @ 20 °C Vapor density Not available **Density** Not available Weight per Gallon (lbs) 8.7-13.9 VOC (lb/gal) Not available VOC (g/l) Not available **Dynamic viscosity** Not available

VOC Content California

VOC Content of Material 510-659 grams per liter VOC Content of Coating less Water and Exempt Solvents 510-659 grams per liter

10. STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization does not occur.

Conditions to Avoid

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Heat, flames and sparks.

Incompatible Materials

Strong oxidizing agents, strong acids, and strong bases.

Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Acute toxicity

Inhalation May cause irritation of respiratory tract. May cause central nervous system depression with

nausea, headache, dizziness, vomiting, and incoordination.

Eyes Risk of serious damage to eyes.

Skin Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component Information

Chemical Name	Oral LD50	Dermal LD50	LC50 (lethal concentration)
Cyclohexanone	= 1544 mg/kg (Rat)	= 947 mg/kg (Rabbit)	= 8000 ppm (Rat) 4 h
dicyclohexyl phthalate	= 30 mL/kg (Rat)		
Solvent naphtha, light aromatic	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h
1,2,4-Trimethylbenzene	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h

Information on toxicological effects

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Non-irritating during normal use.

Corrosivity No information available.

Sensitization May cause sensitization by skin contact.

Mutagenic Effects No information available.

Reproductive ToxicityProduct is or contains a chemical which is a known or suspected reproductive hazard.
Carcinogenicity
Product is or contains a chemical which is a known or suspected reproductive hazard.
The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Cyclohexanone	A3	Group 3		

ACGIH: (American Conference of Governmental Industrial

Hygienists)

A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

A4 - Not Classifiable as a Human Carcinogen

NTP: (National Toxicity Program)
Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a

Human Carcinogen

STOT - single exposure No information available.

IARC: (International Agency for Research on Cancer)

Group 1: Carcinogenic to humans

Group 2A: Probably carcinogenic to humans Group 2B: Possibly carcinogenic to humans

Group 3: Not classifiable as to its carcinogenicity to humans

OSHA: (Occupational Safety & Health Administration)

X - Present

STOT - repeated exposureNo information available.

Chronic toxicity May cause adverse liver effects. May cause adverse kidney effects.

Target Organ Effects Blood, Central nervous system (CNS), Eyes, Kidney, Liver, Lungs, Respiratory system,

Skin, Reproductive system.

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) 4362 mg/kg
ATEmix (dermal) 5368 mg/kg
ATEmix (inhalation-gas) 22004 mg/l
ATEmix (inhalation-dust/mist) 7.3 mg/l
ATEmix (inhalation-vapor) 55.7 mg/l

ATE: Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity

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Chemical Name	Algae toxicity	Toxicity to fish	Toxicity to	Toxicity to daphnia and
			microorganisms	other aquatic invertebrates
Cyclohexanone	20: 96 h Chlorella vulgaris	Pimephales promelas: 481 -		
	mg/L EC50	578 mg/L at 96 h		
	_	Pimephales promelas: 8.9		
		mg/L at 96 h		
1,2,4-Trimethylbenzene		Pimephales promelas: 7.19 -		
		8.28 mg/L at 96 h		

Persistence and degradability

No information available.

Bioaccumulation

Chemical Name	Octanol Water Partition Coefficient (log pow)
Cyclohexanone	0.86
1,2,4-Trimethylbenzene	3.63

Mobility

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of in accordance with all applicable national environmental laws and regulations. Dispose of in accordance with federal, state, and local regulations. Do not dispose of waste into sewers, drains or use other methods that will come into contact with surface waters.

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Contaminated packaging

Do not re-use empty containers.

<u>US EPA Waste Number</u> D001

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name
UN/ID No
Hazard Class
Packing Group
Printing ink
UN1210
3
III

Reportable Quantity (RQ) Vinyl acetate: RQ kg= 0.369, Cyclohexanone: RQ kg= 15497.00, Xylenes isomers and

mixture: RQ kg= 0.027, Ethyl acrylate: RQ kg= 0, Formaldehyde: RQ kg= 0.004, Vinyl chloride: RQ kg= 3880.94, Trichloroethylene: RQ kg= 0.015, Cumene: RQ kg= 1.341

Description UN1210 Printing ink 3, III

129

Emergency Response Guide

Number

Packaging Exceptions150Non-bulk Packaging173Bulk Packaging242

TDG .

Proper Shipping Name Printing ink UN/ID No UN1210 Hazard Class 3 Packing Group III

Description UN1210 Printing ink 3, III

MEX

Proper Shipping Name
UN/ID No
Hazard Class
Packing Group
Printing ink
UN1210
3
III

Description UN1210 Printing ink 3, III

<u>ICAO</u>

Proper Shipping Name Printing ink UN/ID No UN1210 Hazard Class 3 Packing Group III

Description UN1210 Printing ink 3, III

IATA

Proper Shipping Name Printing ink UN/ID No UN1210 Hazard Class 3 Packing Group III

Description UN1210 Printing ink 3, III

IMDG

Proper Shipping Name
UN/ID No
Hazard Class
Packing Group
UN1210
UN1210
UN1210
UN1210
F-E, S-D

Description UN1210 Printing ink 3, III

ADR/RID

Proper Shipping Name Printing ink UN/ID No UN1210

Hazard Class 3

Packing Group III
Classification Code F1

Description UN1210 Printing ink 3, III

ADR/RID-Labels 3

<u>ADN</u>

Proper Shipping Name
UN/ID No
Hazard Class
Packing Group
Ull
Classification Code
Printing ink
UN1210
UN1210
Ill
F1

Description UN1210 Printing ink 3, III

Limited quantity LQ7 Ventilation VE01

15. REGULATORY INFORMATION

International Inventories

TSCA Yes **DSL/NDSL** Yes **PICCS** Yes **EINECS/ELINCS** No **ENCS** No **IECSC** Yes **KECL** Yes Yes **AICS**

*No - Indicates the component(s) of this product are either not listed or have not been determined to be listed on the inventory.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

TSCA Sections 4, 5 and 12(b)

This product does not contain any chemicals regulated by TSCA Sections 4, 5 or 12(b).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS No	SARA 313 - Threshold Values %	Weight-%
1,2,4-Trimethylbenzene	95-63-6	1.0	0.5-1.5%

SARA 311/312 Hazard Categories

Classification is shown in section 2 of this SDS

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21

^{*}Yes - All component(s) of this product are included or are exempt from listing on the inventory.

and 40 CFR 122.42):.

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
dicyclohexyl phthalate		X		

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Cyclohexanone	5000		RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Regulations

California Proposition 65



WARNING: Cancer - www.P65Warnings.ca.gov

Chemical Name	CAS No	California Prop. 65	Weight-%
Cumene	98-82-8	Carcinogen	<0.1%
Ethylbenzene	100-41-4	Carcinogen	<0.1%
ethyl acrylate	140-88-5	Carcinogen	<0.1%
formaldehyde	50-00-0	Carcinogen	<0.1%

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Cyclohexanone	Χ	Х	X	Χ	X
dicyclohexyl phthalate			X		
1,2,4-Trimethylbenzene	Χ	X	X	X	

International Regulations

Canada - NDSL

This product does not contain any NDSL chemicals.

Mexico - Grade

Moderate risk, Grade 2

Mexico - Carcinogen Status and Exposure Limits

Chemical Name	Carcinogen Status	Exposure Limits
Cyclohexanone		Mexico: TWA 50 ppm
		Mexico: TWA 200 mg/m ³
		Mexico: STEL 100 ppm
		Mexico: STEL 400 mg/m ³

Other Regulations

No information available

CPSIA Formulated to comply
CONEG Formulated to comply
ASTM F-963 Formulated to comply
CHPA Formulated to comply
ROHS Formulated to comply
REACH/SVHC Does not comply
EN-71 Formulated to comply

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 2 Instability 0 Physical and chemical

hazards -

HMIS Health Hazard 2* Flammability 2 Physical Hazard 0 Personal protection B

*Indicates a chronic health hazard.

Prepared By FUJIFILM Environment, Health and Safety, phone: 800-473-3854

Revision Date 01-Mar-2019

Revision Note No information available

Disclaimer The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in

any process, unless specified in the text.

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