Sigma Ink Inc.
12800 Brookprinter Place
Poway Ca, 92064

SAFETY DATA SHEET

1. Product and Company Identification

Name of the product	PTX Thinner
Identifier of the product	Sigma PTX Thinner
Uses recommended and restrictions	Ink for Print with pad
Data of the manufacturer	Sigma Inks (USA) 12800 Brookprinter place, Poway, CA 92064 USA Telephone: (888) 424-9300 Website: www.sigmainks.com Contact to the distributor: www.printexusa.com
Emergency telephone number	Chemtrec (And.Or.): (800) 424-9300 Chemtrec Out: (703) 527-3887 (collect calls)

2. Hazards identification

Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Flammable liquids	Category 3

Label elements

Identification of the substance or mix warning	PTX Thinner Flammable liquid and vapor
Hazards not otherwise classified (HNOC)	Not Applicable
Other hazards	May be harmful in contact with skin
Precautionary Statements - Prevention	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 Wear protective gloves/protective clothing/eye protection/face protection In case of fire: Use CO_2, dry chemical, or foam to extinguish. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Precautionary Statements - Storage	Store in a well-ventilated place. Keep cool
Precautionary Statements - Disposal	Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Components	CAS-No.	Weight %
Propylene Glycol Methyl Ether Acetate	108-65-6	100

4. First aid measures

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye/skin irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. Fire-fighting measures

Extinguishing Media

Suitable Extinguishing Media : Carbon dioxide (CO_2). Dry chemical. Water spray mist or foam. Alcohol-resistant foam.

Unsuitable Extinguishing Media : Do not use a solid (straight) water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Hazardous Combustion Products : Carbon Monoxide, Carbon Dioxide.

Specific hazards : Flammable. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier tan air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Fire may produce irritating, corrosive and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods : Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

Special Protective Equipment 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 : Use personal protective equipment.
Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions : Avoid release to the environment.

Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

7. Handling and storage

Advice on protection against fire and explosion : None known.

Advice on safe handling : Use only in area provided with appropriate exhaust ventilation.
Wash thoroughly after handling.

Conditions for safe storage : Keep tightly closed.

8. Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-methoxy-1-methylethyl	108-65-6	TWA	50 ppm	US WEEL

Engineering measures	:	Ensure adequate ventilation.
Personal protective equipment		
Respiratory protection	:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks	:	Wear suitable gloves.
Eye protection	:	Safety glasses
Protective measures	:	Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Ensure that eye flushing systems and safety showers are located close to the working place. Use personal protective equipment as required.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance	:	liquid
Color	:	colorless
Odor	:	sweet
Odor Threshold	:	not determined
pH	:	not determined
Boiling point/boiling range	:	302 °F / 150 °C
Flash point	:	115 °F / 46 °C
Evaporation rate	:	not determined
Vapor pressure	:	not determined
Relative vapor density	:	4.6
Relative density	:	0.969
Solubility(ies)		
Water solubility	:	soluble
Partition coefficient	:	Pow: 3.6
octane/water		log Pow: 0.56
Autoignition temperature	:	669 °F / 354 °C
		Method: ASTM E659
Decomposition temperature	:	Method: HPDTA
		No exotherm to boiling (at 150 psig)
Viscosity		

Viscosity, dynamic	:	1.07 mPa.s (77 °F / 25 °C)
Viscosity, kinematic	:	not determined
Explosive properties	:	Not classified
Oxidizing properties	:	No data available

10. Stability and reactivity

Reactivity

Reactive with acids
Reactive with oxidizing agents

Chemical stability

Stability	:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	:	Hazardous polymerization does not occur
Conditions to avoid	:	Heat. Ignition sources. Incompatible materials.
Incompatible Materials	:	Oxidizing agents Acids
Hazardous decomposition products	:	Carbon monoxide. Carbon dioxide.

Other Information

Corrosivity	:	No information available
Special Remarks on Corrosivity	:	No information available

11. Toxicological information

Information on likely routes of exposure

Principal Routes of Exposure:
Skin. Ingestion. Inhalation.

Acute Toxicity

Component Information

Propylene Glycol Methyl Ether Acetate	
CAS-No.	108-65-6

LD50/oral/rat = = 8532 mg/kg Oral LD50 Rat
LD50/oral/mouse = >5000 mg/kg
LD50/dermal/rabbit = 5 g/kg Dermal LD50Rabbit
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 8532 mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = >5000 mg/kg

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = 5000 mg/kg

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact	Not likely to cause skin irritation.
Eye Contact	May cause eye irritation. Mild eye irritation. May cause conjunctivitis. May cause corneal opacity.
Inhalation	May cause respiratory tract irritation.
Ingestión	Health injuries are not known or expected under normal use
Aspiration hazard	No information available.

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

Chronic Toxicity	Prolonged or repeated ingestion may affect the liver, and kidneys. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated inhalation may affect the liver. Prolonged or repeated inhalation may cause degeneration of the olfactory epithelium in the nasal cavities. Prolonged skin contact may cause skin irritation.
Sensitization:	No information available.
Mutagenic Effects:	No information available

Carcinogenic effects No information available.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens
Propylene Glycol Methyl Ether Acetate	108-65-6	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)
IARC (International Agency for Research on Cancer)
NTP (National Toxicology Program)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available
Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available
Specific Target Organ Toxicity	
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organs:	Liver. Kidneys.

12. Ecological information

Ecotoxicity

Ecotoxicity effects:	Aquatic environment.
Propylene Glycol Methyl Ether Acetate - 108-65-6	
Freshwater Fish Species Data:	161 mg/L LC50 Pimephales promelas 96 h static 1
Water Flea Data:	500 mg/L EC50 Daphnia magna 48 h
Persistence and degradability:	Readily biodegradable
Bioaccumulative potential:	No information available.
Mobility:	No information available.

13. Disposal considerations

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal.

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Propylene Glycol Methyl Ether Acetate	108-65-6	None	None	None	None

14. Transport information

No. A	1263.
Official definition of transport of the UN	Paint Related Material

Class	3
Group of container/packaging	III
Environmental risks	Without available data.
Special cautions for the user	Without available data.
Bulk Transportations	No applicable as it catered.

15. Regulatory information

OSHA Hazards

Combustible Liquid, Target Organ Effect

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Chronic Health Hazard

16. Another information

Additional information

The information and recommendations in this safety sheet with, to our best know and understand, precise to the date of his expedition. At all of the here included will have to be considered to create guarantee, expresses or implicit and will not establish contractual relation legally validates. It is responsibility of the user determine the applicability of this information and the suitability of the material or product for any purpose in particular.