

1. Product and Company Identification

Name of the product MP-205

Identifier of the product MP-205

Uses recommended and restrictions Hardener for Pad Printing Ink

Data of the manufacturer Sigma Inks (US) 12800 Brookprinter place, Poway, CA 92064 USA

Telephone: (888) 424-9300 Website: www.sigmainks.com

Contact to the distributor: www.printexusa.com

Number of emergency Chemtrec (And.Or.): (800) 424-9300

Chemtrec (Out of USA.): (703) 527-3887

2. Hazard Identification

Classification of the substance or mix

- Physical Hazards

- **Health Hazards** Category 2A ,Eye Irritation

Category 4, Acute Toxicity Category 1, Skin sensitivity

Label elements:

- Identification of the substance or mix

- Pictogram of caution

Sigma MP-205







Word of warning Danger

- Code of identification H H317 May causes allergic skin reaction

H332 Harmful if inhaled

H335 May cause respiratory irritation

- Code of identification P P284: Wear respiratory protection.

P261: Avoid breathing dust /fumes/gas/mist/vapors/spray.

P271: Use only outdoors or well-ventilated area. P280: Carry gloves/glasses/chewed of protection.

P272: Contaminated work clothing should not be allowed out of the work

olace.

P305 + P351 + P338: IN CAS OF CONTACT WITH THE EYES clear carefully with water during several minutes. Remove the lens of contact, if

it carries and results easy. Keep Clearing.

P342+P311: If experiencing respiratory symptoms: Call a poison

center/Doctor

P304+340+P311: If inhaled. Remove the person to fresh air and keep

comfortable for breathing. Call poison center /Doctor P363: Wash contaminated clothing before reuse.

P303 + P352: IN CASE OF CONTACT WITH THE SKIN (or hair). Wash

with plenty of water and soap.

P403 + P235+P233: Store in a ventilated place. Keep in a cool place.

Keep container tightly closed.

P501: Delete the contained/container in a plant of elimination of waste

approved.

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3. Composition/information on Ingredients						
Chemical identity of the substance	Common or synonymous name	number CAS	Impurities and additives	Percentage		
1,6 Hexametileno Diisocianato homopolimero	Propanoic acid, 3-ethoxy-, ethyl ester	28182-81-2	-	70– 90 %		
2-metoxi-1-acetate of methyl ethyl	2-Propanol, 1-methoxy-, acetate	108-65-6	-	15– 35 %		
Clyclohexanone		108-94-1		5-10%		

4. First-aid Measures

In case of contact with the skin Wash the affected areas thoroughly with soap and water.

Remove the contaminated cloth, get medical attention.

In case of contact with the eyes Rinse the eyes for at least 15 minutes under running water with

eyelids held open, Remove contact lenses is present. If the

ocular irritation persists consult to a specialist.

In case of ingestion Do not induce vomiting. Or give anything by mouth if the

person is unconscious. If the symptoms persist consult to a

doctor.

Symptoms and important effects acute and delayed.

There is not information notable available.

Indications pay attention medical immediate and special

treatment

There is not information notable available.

5. Fire-Fighting Measures

Means of appropriate extinction Dry power

Carbon dioxide (CO₂)

Foam

Means of unsuitable extinction High volume water Jet

Specific dangers of the substance The vapors can travel to a source of ignition and return, can

occur explosive mixes to equal or upper temperatures ready of

ignition.

Special measures for fire-fighters If necessary, the firefighters should be equipped with self-

contained breathing apparatus.

6. Accidental release Measures

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Personal precautions, protective equipment and

Emergency procedures:

Use equipment of individual protection. Ensure an appropriate ventilation. Withdraw all the sources of ignition.

Evacuate the personnel to safe zones.

Have care with the steams that accumulate forming like this ex

concentrations explosives.

Environmental Precautions

It avoids that the product penetrate in the sewerage. Prevent new leakages or spill if it can do without risks. If the product contaminated rivers, lakes or sewerages, inform

to the respective authorities.

Methods and materials for the containment and cleaning of spill or escapes

Contain of the spill and collect it with material agglutinated of liquids (e.g. sand, earth of diatomeas, agglutinated of acids, agglutinated universal, saw dust) and deposit it in a container for his elimination in accordance with the local and national legislation (see section 13).

No wash with water or agents of aqueous cleaning...

Handling and storage

Precautions for safe handling

Avoid aerosol formation.

Do not breathe vapor Not smoking, not eating neither drink

during the work.

Avoid contact with skin and eyes. Personal protection see section 8. Avoid the electrostatic changes.

Have of the sufficient fresh air and/or of extraction in the places

of work.

Open the container with caution may be pressurized.

Conditions for the safe storage and incompatibilities

Conserve the container hermetic closed in a dry and very ventilated place. The containers that open have to go back to close carefully and keep in vertical position to avoid losses. The electrical installations and the materials of work have to be

according to the norms of security.

Protect of the heat.

Protect of the electrostatic discharge.

Exposure controls/ Personal protection

Parameters of control

Component	No. CAS	Value	Parameter of control	Base
1,6 hexametileno de isocianato	28182-81-2	TWA	0.0050 ppm	Value limit (TLV) of the ACGIH, USES
homopolimero				
2-metoxi-1-acetate of methyl ethyl	108-65-6	TWA	100 ml/m3 50 ppm	US WEEL
Clyclohexanone	108-94-1	TWA	100 mg/m3	
			25 ppm	

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Appropriate technical controls

Measures of individual protection Have to follow the measures of caution for the handle of

chemists.

Keep moved away of foods, drunk and food.

Wash the hands before the rests and before the end of the

work.

Protection of the hands Protective gloves

Protection of the eyes Tightly sealed goggles.

- Corporal protection Use waterproof clothes . Choose a protection for the body

according to the quantity and the concentration of the

substance in the place of work.

9. Physical and chemical properties

Physical state and appearanceViscousColorTransparentOdorCharacteristic

Odor thresholdValue no determinatePotential of hydrogenate, pHValue no determinateMelting-point / freezing pointValue no determinateInitial point and interval of ebullition146 °C (295 °F)Flashpoint43 °C (109 °F)

Evaporation rateValue no determinateflammabilityIt does not apply.

Explosion Limits

 Lower:
 1.5 Vol %

 Upper:
 10.8 Vol %

 Vapor Pressure @ 20°C
 3.4 hPa

 Relative vapor Density
 >1(air=1)

Relative density Value no determinate

Density1.097 g/cm³ @ 20 °C (68 °F)SolubilityNo miscible. Difficult to mix.

Partition Coefficient Without available data

Auto-ignition TemperatureProduct is not explosion hazard,Thermal decompositionValue no determinate

Thermal decomposition Value no determinate Viscosity Value no determinate Molecular weight Value no determinate

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Other data NO additional information.

10. Stability and Reactivity

Reactivity It does not know dangerous reactions under normal

instructions for use.

Chemical stability Stable in normal conditions.

Possibility of dangerous reactions Without dangers to mention especially.

Conditions that have to avoid Heat, flames, sparks and other sources of ignition.

Incompatible materials Oxidizing agent, peroxides

Products of dangerous decomposition No dangerous decomposition products known.

11. Toxicological Information

Information on the likely roads of entry

Symptoms related with the physical characteristics,

chemical and toxicological

Information not available.

Immediate effects, late and chronic (by exhibition to short

and long term)

Information not available.

Numerical measures of toxicity

- Oral acute toxicity 108-65-6 2-metoxy-1-acetate of methyl ethyl

LD50 - (rat) - 5000 mg/kg

- Acute toxicity dermic 28182-81-2 Aliphatic Polyisocyanate

>5,000 mg/kg

108-65-6 2-metoxy-1-acetate of methyl ethyl

Information not available.

- Acute toxicity inhalator 108-65-6 2-metoxy-1-acetate of methyl ethyl

LC50/ 4 h - (rat) - 35.7 mg/L LC50/ 96 h - (trout) - 129.92 mg/L LC50/ 48 h - (daphnia) - 316.57 mg/L

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Information no available.

Another information Information not available.

Corrosion/cutaneous irritation: Without effect of irritation.

Grave ocular injuries/ocular irritation Without effect of irritation.

Mutagenic In germinal cells - Genotoxicity in vitro

Ames test.

Species: Salmonella typhimurium.

With and without metabolic activation.

Result: Negative

In vitro chromosomal aberration test.

Species: Chinese hamster ovary (CHO).

With and without metabolic activation.

Result: Negative

Carcinogenic OSH/

No component of this product present in levels greater than or

equal to 0.1% is identified as a carcinogen o potential

carcinogen.

NTP

No component of this product present in levels greater than or

equal to 0.1% is identified as a carcinogen o potential

carcinogen.

Toxicity for the reproduction Information not available.

Systematic toxicity specifies – only exhibition Information not available.

Systematic toxicity specifies – exhibitions repeated Information not available.

Danger by aspiration Information not available.

12. Ecological Information

ToxicityACUTE AQUATIC TOXICITY:
Toxic for water organisms

Toxic for water organisms

CHRONIC AQUATIC TOXICITY

Toxic.

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Persistence and degrability There is not available notable information.

Potential of bioaccumulation There is not available notable information.

Mobility of the floorThere is not available notable information.

Other adverse effects

An environmental hazard cannot be excluded in case of manipulation or disposal

unprofessional.

Toxic to aquatic life with lasting effect.

13. Disposal Considerations

Description of the wasteInformation not available.

Information on manipulation without danger Review section 7.

Methods of elimination The disposal has to be in accordance with all the local

regulations, state and federal pertinent.

Elimination of the containers contaminated Empty the remaining content. Disposal those as product

without use. Do not burn the empty drum.

14. Transport Information

No. UN

DOT, ADR, AND, IMDG, IATA

Non-Regulated Material

UN proper shipping name

DOT, ADR, AND, IMDG, IATA Non-Regulated Material

Transport hazard Class (es)

DOT, ADR, AND, IMDG, IATA

Class Non-Regulated Material

Packaging Group

DOT, ADR, AND, IMDG, IATA

Non-Regulated Material

Environmental Hazard Not applicable.

Special cautions for the user Not applicable

Transport in bulk according to Annex II

And the IBC code

Not applicable.

15. Regulatory information

Specific regulation/legislation on safety, health and environment for substance or mixture.

SARA 355 (substances extremely dangerous)

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None of the ingredients are listed

SARA 313

None of the ingredients are listed

TSCA (Law of Control of Toxic Substances)

108-65-2 2-metoxy-1-acetate of methyl ethyl

Proposition 65.

Chemists that knows that they cause cancer

None of the ingredients are listed

Chemists that knows that they cause reproductive toxicity in women

None of the ingredients are listed.

Chemists that knows that cause reproductive toxicity in humans

None of the ingredients are Listed.

Chemists that knows that causing developing toxicity

None of the ingredients are listed

Categories cancerogenic

EPA (Agency of environmental Protection)

Any of the ingredients this enlisted.

NIOSH-Ca (National institute for the Health and Labor Security)

Any of the ingredients this enlisted.

National Regulation

The product is subject to being classified according to the latest version of regulation on hazardous substances

State right to know

All ingredients are listed.

Chemical safety assessment:

A chemical safety assessment has not yet been do it.

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.

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