

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/20/2016 Reviewed on 05/20/2016

1 Identification

- · Product Identifier
- · Trade name: Sigma MP 206
- Relevant identified uses of the substance or mixture and uses advised against:
- · Product Description MP 206 Adhesion Promoter for Pad Printing Ink
- · Details of the Supplier of the Safety Data Sheet:
- · Manufacturer/Supplier:

Sigma Inks (US)

12800 Brookprinter Place Poway, CA 92064 USA

Phone: (888) 424-9300

Website: www.sigmainks.com or contact distributor: www.printexusa.com

Emergency telephone number: Chemtrec (US): (800) 424-9300

Chemtrec (Outside US): (703) 527-3887 (Collect calls accepted)

2 Hazard(s) Identification

· Classification of the substance or mixture:



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.

- · Label elements:
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).



· Hazard pictograms:

s: GHS02

- Signal word: Warning
- · Hazard statements:

H226 Flammable liquid and vapor.

· Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P280 Wear protective gloves / eye protection / face protection.

P240 Ground/bond container and receiving equipment.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/20/2016 Reviewed on 05/20/2016

Trade name: Sigma MP 206

P233 Keep container tightly closed. P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Unknown acute toxicity:

55 % of the mixture consists of component(s) of unknown toxicity.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0 Fire = 2 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0 Fire = 2

EACTIVITY D Reactivity = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with non-hazardous additions.

CAS: 1330-20-7	Xylene	40-70%
	Flam. Liq. 3, H226; Acute Tox. 4, H332	
CAS: 123-86-4	n-Butyll acetate	15-35%
	Flam. Liq. 3, H226	

4 First-Aid Measures

- · Description of first aid measures:
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If swallowed and symptoms occur, consult a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

· Extinguishing media:



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/20/2016 Reviewed on 05/20/2016

Trade name: Sigma MP 206

- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet · Special

hazards arising from the substance or mixture:

Combustible liquid. Vapors can travel to a source of ignition and flash back.

Explosive mixtures may occur at temperatures at or above flashpoint.

- Advice for firefighters:
- · Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Do not allow to enter sewers/surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

- · Handling
- · Precautions for safe handling: Open and handle receptacle with care.
- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities:
- Storage
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- · Components with occupational exposure limits:

1330-20-7 Xylene

PEL Long-term value: 200 mg/m³, 50 ppm **REL**

Long-term value: 100 mg/m³, 25 ppm

Skin



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/20/2016 Reviewed on 05/20/2016

Trade name: Sigma MP 206

TLV Long-term value: 50 mg/m³, 20 ppm Skin

Ingredients with biological limit values: 123-86-4 n-Butyl Acetate TWA 150 ppm US. ACGIH TLM (01 2010) STEL 200 ppm US. ACGIH TLM (01 2010) PEL 150 ppm 710 mg/m3 US OSHA Limit for Air

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- · Personal protective equipment:
- · General protective and hygienic measures:

Use adequate exhaust ventilation to prevent inhallation of product vapors.

Do not eat or drink while handling product.

The usual precautionary measures for handling chemicals should be followed.

Wash hands before breaks and at the end of work.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:



Tightly sealed goggles



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/20/2016 Reviewed on 05/20/2016

Trade name: Sigma MP 206

9 Physical and Chemical Properties

· Information on basic physical and chemical properties

· General Information · Appearance:

Form: Viscous

Color: White to yellowOdor: CharacteristicOdor threshold: Not determined.

· **pH-value:** Not determined.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Flash point:
Flammability (solid, gaseous):
Ignition temperature:
Decomposition temperature:
Not determined.
135 °C (275 °F)
27 °C (80.6 °F)
Not applicable.
290 °C (554 °F)
Not determined.

Auto igniting: Product is not self-igniting.
 Danger of explosion: May form explosive peroxides.

· Explosion limits:

Lower: 1.1 Vol % **Upper:** 10.8 Vol %

· Vapor pressure @ 20 °C (68 °F): 5 hPa (4 mm Hg)

· Density:

Relative density:Not determined.Vapor density:Not determined.Evaporation rate:Not determined.

· Solubility in / Miscibility with:

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

Solvent content:

 Organic solvents:
 77.0 %

 VOC content:
 77.0 %

 Solids content:
 23.0 %

• Other information: No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/20/2016 Reviewed on 05/20/2016

Trade name: Sigma MP 206

· Hazardous decomposition products: No dangerous decomposition products known.

* 11 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:
- · Primary irritant effect:
- · On the skin: Mild irritant effect.
- · On the eye: Mild irritant effect.
- · Additional toxicological information:
- · Carcinogenic categories:
- · 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
- Group 4 Probably not carcinogenic to humans

1330-20-7 Xylene	3
· NTP (National Toxicology Program):	
None of the ingredients are listed.	
· OSHA-Ca (Occupational Safety & Health Administration):	
None of the ingredients are listed.	

12 Ecological Information

- · Toxicity:
- · Aquatic toxicity:

1330-20-7 xylene

EC50 8.5 mg/l (Green algae) (48 hr)

1123-86-4 n Butyl Acetate

EC50 648 mg/l (Green algae) (72 Hr)

LC50 44 mg/l (Water Flea) (48 Hr)

785 mg/l (daphnia)

- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

13 Disposal Considerations

· Waste treatment methods:



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/20/2016 Reviewed on 05/20/2016

Trade name: Sigma MP 206

- · Recommendation:
 - Observe all federal, state and local environmental regulations when disposing of this material.

UN1263

Paint related material

- · Uncleaned packagings
- · Recommendation: Disposal must be made according to official regulations.

14 Transport Information

- · UN-Number:
- · DOT, ADR, IMDG, IATA

· UN proper shipping name:

· DOT

· ADR· IMDG, IATAUN1263 Paint related materialPAINT RELATED MATERIAL

· Transport hazard class(es):

· DOT



· *Class:* 3 Flammable liquids

· Label: 3

· ADR



· *Class:* 3 (F1) Flammable liquids

· Label: 3



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/20/2016 Reviewed on 05/20/2016

· IMDG, IATA

Trade name: Sigma MP 206



Class: 3 Flammable liquids

· Label: 3

Packing group:

· DOT, ADR, IMDG, IATA Ш

· Environmental hazards: Not applicable.

Warning: Flammable liquids · Special precautions for user:

Danger code (Kemler): 30 · EMS Number: F-E,S-E

· Transport in bulk according to Annex II

of MARPOL73/78 and the IBC Code: Not applicable.

· Transport/Additional information:

· DOT

· Quantity limitations: On passenger aircraft/rail: 60 L

On cargo aircraft only: 220 L

· ADR

· Excepted quantities (EQ): Code: E1

> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· IMDG

Limited quantities (LQ): 5L

· Excepted quantities (EQ): Code: E1

> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN1263, Paint related material, 3, III

5 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture:
- · SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from listing.

- · California Proposition 65:
- · Chemicals known to cause cancer:

None of the ingredients are listed.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/20/2016 Reviewed on 05/20/2016

Trade name: Sigma MP 206

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).



Hazard pictograms:

GHS02

· Signal word: Warning

· Hazard statements:

H226 Flammable liquid and vapor.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P280 Wear protective gloves / eye protection / face protection.

P240 Ground/bond container and receiving equipment.

P233 Keep container tightly closed. P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- · Date of preparation / last revision: 05/20/2016 / 5
- · Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/20/2016 Reviewed on 05/20/2016

Trade name: Sigma MP 206

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4

· * Data compared to the previous version altered.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106