

SAFETY DATA SHEET

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DATE PREPARED: 22/June/2013

REF: E-166-03

Product name: Matsumin Pearl Binder 301

SECTION 1: Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Product name: Matsumin Pearl Binder 301

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

Recommended use: Printing ink for paper, textile, wood, and film.

Product description: Water based binder of resin.

1.3 Details of the supplier of the Safety Data Sheet

Supplier: Matsui Shikiso Chemical Co., Ltd.

64, Kamikazan Sakuradani-cho, Yamashina-ku, Kyoto, 607-8466, JAPAN

Telephone no.: +81 75 594 5612

E-mail: msc-export@msc-color.co.jp

Agency: Matsui International Co., Inc.

1501 West 178th Street, Gardena, CA 90248, U.S.A.

Telephone no.: (310) 767-7812

1.4 Emergency telephone number

+81 (75) 594-5612 / (310) 767-7812

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to regulation (EC)No. 1272/2008 [CLP]:

See Section 16.

Classification according to Council Directive 67/548/EEC:

Not classified.

2.2 Label elements None.

2.3 Other hazards None.

SECTION 3. Composition/information on ingredients

3.2 Mixtures

Resin: Concentration 15-25%

CAS No. 29437-34-1

EC No. polymer

Mica Concentration Approx.10%

CAS No. 12001-26-2

Ethylene glycol: Concentration 5-10%

CAS No. 107-21-1

EC No. 203-473-3

Index No. 603-027-00-1

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Titanium dioxide Concentration 1-5%
 CAS No. 13463-67-7
 EC No. 236-675-5

Water and other non-hazardous ingredients: the rest

Hazardous ingredient: This product does not include hazardous ingredient.

SECTION 4. First-aid measures

4.1 Description of first aid measures

Inhalation: If inhale a large quantity, remove to fresh air. If needed, get medical attention.

Skin contact: Wash with mild soap and water. If needed, get medical attention.

Eye contact: Immediately flush eyes with water for at least 15minutes. Seek medical attention as needed.

Ingestion: Rinse mouth thoroughly with water. Induce vomiting if possible. Seek medical attention as needed.

4.2 Most important symptoms and effects, both acute and delayed

No symptoms known currently.

4.3 Indication of any immediate medical attention and special treatment needed

No special measures needed.

SECTION 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: In case of combustion, use water, sand, dry chemical, or CO₂ gas.
(This product is not combustible under normal condition due to its aqueous property.)

Unsuitable extinguishing media:

No data available.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

No data available.

5.3 Advice for firefighters:

In case of fire, wear respirator.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing and equipment as needed. Ventilate area.

6.2 Environmental precautions

Avoid releasing spilled material into rivers and/or lakes to prevent environmental impact. If material is released to public water in large amounts, advise local authority.

6.3 Methods and materials for containment and cleaning up

For small spill, absorb with dry sand, soil, saw dust or rag. Collect into container for disposal and wipe the remaining up with rag.

For large spill, dike with soil, blanket or sandbags to prevent from entering public waters, and collect into container with shovel or vacuum.

6.4 Reference to other sections

Reffer to section 8 and 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Protective measures: Wear suitable protective equipment and clothing as needed to prevent the material from contacting skin and eyes. Local exhaust ventilation or general ventilation is recommended during indoor operation.

Advice on general occupational hygiene:

Wash thoroughly after handling. Do not eat, drink, or smoke during work.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures storage conditions:

Keep container airtight. Store in a cool and dark place away from excessive heat and direct sunlight.

Packaging materials: Impermeable materials.

7.3 Specific end uses

Reffer to Section 1.2

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

Mica: TWA 3 mg/m³ (Respirable fraction, ACGIH 2011)

Ethylene glycol:

STEL 100 mg/m³ (ACGIH, ceiling value, 2011)

MAK 10 ppm, 26 mg/m³ (DFG, 2004)

IOELVs 52mg/m³, 20ppm(8h), 104mg/m³, 40ppm(short-term)

Titanium dioxide:

TWA 10 mg/m³ (ACGIH, 2011)

MAK 1.5 mg/m³ (Respirable fraction) (DFG, 2006)

8.2 Exposure controls

Appropriate engineering controls:

Local exhaust ventilation or general ventilation is recommended during indoor operation.

Personal protection equipment:

- Respiratory protection: Wear respirator when applicable.
- Hand protection: Wear rubber or plastic gloves.
- Eye protection: Wear safety glasses or chemical goggles.
- Skin and body protection: Wear long sleeves, long pants and boots when applicable.

Hygiene measures: Nothing in particular.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Silver pearl paste.
Odour:	Slight odour.
pH:	8.0 ± 0.5
Melting point:	No data available.
Boiling point:	No data available.
Flash point:	No data available.
Evaporation rate:	No data available.
Flammability:	If this product is dry, it may be flammable.
Upper/lower flammability or explosive limits:	No data available.
Vapour pressure:	No data available.
Vapour density (air=1):	No data available.
Relative density:	1.06 ± 0.05
Solubility:	Miscible.
Partition coefficient:n-octano/water:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	15,000 - 20,000 mPa · s
Explosive Properties:	Not applicable.
Oxidizing Properties:	Not applicable.

SECTION 10. Stability and reactivity

- 10.1 Reactivity No specific reactivity under normal condition.
- 10.2 Chemical stability Stable under normal handling and using condition.
- 10.3 Possibility of hazardous reaction
Nothing in particular.
- 10.4 Conditions to avoid Nothing in particular.
- 10.5 Incompatible materials Nothing in particular.
- 10.6 Hazardous decomposition products
Nothing in particular.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: Oral LD50 > 2,000 mg/kg (calculation method)
- Irritation: No data available.
- Corrosivity: No data available.
- Sensitisation: No data available.
- Repeated dose toxicity: No data available.
- Carcinogenicity: Not applicable.
- Mutagenicity: No data available.
- Toxicity for reproduction: No data available.

SECTION 12. Ecological information

12.1 Toxicity

- Acute toxicity: LC50 > 100 mg/L (calculation method)
- Chronic toxicity:
- Fish: No data available.
- Crustacea: No data available.
- Algae/aquatic plants: No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Result of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

SECTION 13. Disposal considerations

13.1 Waste treatment method

Product/packaging disposal: Dispose of in accordance with local, national, and EU regulations.

Sewage disposal-relevant information:

Do not dump this product into sewers, on the ground or into any body of water.

SECTION 14. Transport information

14.1 UN No. Not applicable.

14.2 UN proper shipping name Not applicable.

14.3 UN Class Not applicable.

14.4 UN Packing Group Not applicable.

14.5 Environmental hazards Not applicable.

14.6 Special precautions for user

Refer to section 6 and 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No transport as bulk.

SECTION 15. Regulatory information

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

EU regulations

(EC) No. 2037/2000: Not applicable.

(EC) No. 689/2008: Not applicable.

(EC) No. 850/2004: Not applicable.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16. Other information

Classification according to regulation (EC) No. 1272/2008 [CLP]:

Not classified.

Label elements: None.

Full text of H-statements and R-phrases:

None.

Indication of changes:

This updated MSDS has changed to adapt to Regulation (EU) No. 453/2010.

Abbreviations and acronyms:

ACGIH American Conference of Governmental Industrial Hygienists, Inc.

CAS Chemical Abstracts Service number

CLP Classification Labelling Packaging Regulation ; Regulation (EC) No 1272/2008

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DFG	Deutsche Forschungsgemeinschaft
IBC-Code	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
IOELV	Indicative Occupational Exposure Limit Value
LC50	Lethal Concentration to 50 % of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MAK	Maximale Arbeitsplatz Konzentrationen
MARPOL	The International Convention for the Prevention of Pollution from Ships
PBT	Persistent, Bioaccumulative and Toxic substance
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
STEL	Short Term Exposure Limit
vPvB	Very Persistent and Very Bioaccumulative

Key literature references and sources for data:

Guidance on the compilation of safety data sheets

(Version 1.1 – December 2011)

Chemical Risk Information Platform (CHRIP):

<http://www.safe.nite.go.jp/japan/db.html>

IUCLID Chemical Data Sheet

The information set forth herein is to the best knowledge and belief of MATSUI SHIKISO CHEMICAL CO., LTD. If not employed as directed, we do not guarantee that the hazard precautions or procedures mentioned above are the only ones which exist and we do not assume responsibility in case of unusual use of this product.