

**Safety data sheet**  
Regulation(EC) No. 1907/2006, 1272/2008

Printing date 11.10.2016

Revision: 10.10.2016

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** *Color lead (Brown) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*ZEBRA CO., LTD.*  
*2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN*  
*Phone:+81-3-3268-1193*  
*Fax:+81-3-3268-1197*  
*Emergency telephone : +81-3-3268-1193*  
*This phone number is available only during office hours:*  
*9am to 5:30pm (Japan time)*

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
  - **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
  - **Classification system:**  
*The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.*
- 
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008** *Not applicable*
  - **Hazard pictograms** *Not applicable*
  - **Signal word** *Not applicable*
  - **Hazard-determining components of labelling:** *Not applicable*
  - **Hazard statements** *Not applicable*
  - **Precautionary statements** *Not applicable*
  - **2.3 Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** *Not applicable*
  - **vPvB:** *Not applicable*

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Composition:**

|  |   |       |
|--|---|-------|
| CAS: 1332-58-7<br>EC number: 310-194-1 | <i>Kaolin</i><br><i>substance with a Community workplace exposure limit</i> | 44,0% |
| CAS: 557-04-0<br>EINECS: 209-150-3     | <i>magnesium distearate, pure</i>   | 26,0% |
| CAS: 1332-37-2<br>EINECS: 215-570-8    | <i>Iron oxide</i>   | 10,0% |

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|--------------------------------------|---|--------------------|
| CAS: 63231-60-7<br>EINECS: 264-038-1 | Paraffin waxes and Hydrocarbon waxes, microcryst.                       | 7,0%               |
| CAS: 9004-32-4                       | Carboxymethylcellulose Sodium   | 6,0%               |
| CAS: 557-05-1<br>EINECS: 209-151-9   | zinc distearate<br>substance with a Community workplace exposure limit  | 3,0%               |
| CAS: 13463-67-7<br>EINECS: 236-675-5 | titanium dioxide<br>substance with a Community workplace exposure limit | 3,0%               |
| CAS: 2512-29-0<br>EINECS: 219-730-8  | 2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide                | 1,0%               |

**Remark:**

All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide (CAS No.2512-29-0)  
 Synonym: Pigment Yellow 1

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Never give anything by mouth to an unconscious person.  
Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.

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- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
 Pick up mechanically.  
 Dispose contaminated material as waste according to item 13.
- **6.4 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.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of dust.  
 Avoid contact with skin and eyes.  
 For the general occupational hygienic measures refer to section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities:**  
  - **Requirements to be met by storerooms and receptacles:** Store in a cool location.
  - **Information about storage in one common storage facility:** Store away from foodstuffs.
  - **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

|                                    |  |
|------------------------------------|--|
| 1332-58-7 Kaolin (44,0%)           |  |
| WEL (Great Britain)                | Long-term value: 2 mg/m <sup>3</sup>   |
| 557-05-1 zinc distearate (3,0%)    |  |
| VME (France)                       | Long-term value: 10 mg/m <sup>3</sup>  |
| WEL (Great Britain)                | Short-term value: 20* mg/m <sup>3</sup><br>Long-term value: 10* 4** mg/m <sup>3</sup><br>*inhalable dust **respirable dust |
| 13463-67-7 titanium dioxide (3,0%) |  |
| AGW (Germany)                      | Long-term value: 1,25* 10** mg/m <sup>3</sup><br>2(II); *alveolengängig **eintembar; AGS, DFG                              |
| VME (France)                       | Long-term value: 10 mg/m <sup>3</sup>  |
| WEL (Great Britain)                | Long-term value: 10* 4** mg/m <sup>3</sup><br>*total inhalable **respirable  |

- **DNELs:** Data not available

- **PNECs:** Data not available

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**

- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.

- **Personal protective equipment:**

- **Respiratory protection:** Suitable respiratory protective device recommended.

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· **Protection of hands:**

Protective gloves

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.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the 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 can not 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 found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **Appearance:**

**Form:** Solid  
**Colour:** Desert Sand

· **Odour:** Odourless

· **Odour threshold:** Data not available.

· **pH-value:** Data not available

· **Change in condition**

**Melting point/Melting range:** Data not available.

**Boiling point/Boiling range:** Data not available

· **Freezing point:** Data not available

· **Flash point:** Data not available

· **Flammability (solid, gaseous):** Date not available.

· **Auto-Ignition temperature:** Data not available

· **Decomposition temperature:** Date not available.

· **Self-igniting:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

**Lower:** Data not available.

**Upper:** Data not available.

· **Oxidising properties** Data not available

· **Vapour pressure:** Date not available.

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|   |  |
|---|--|
| · <b>Density:</b>                                 | Data not available.                        |
| · <b>Relative density</b>                         | Data not available.                        |
| · <b>Vapour density</b>                           | Data not available.                        |
| · <b>Evaporation rate</b>                         | Data not available                         |
| · <b>Solubility in / Miscibility with water:</b>  | Data not available                         |
| · <b>Partition coefficient (n-octanol/water):</b> | Data not available.                        |
| · <b>Viscosity:</b>                               |  |
| <b>Dynamic:</b>                                   | Data not available                         |
| <b>Kinematic:</b>                                 | Data not available                         |
| · <b>9.2 Other information</b>                    | No further relevant information available. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**13463-67-7 titanium dioxide**

|            |          |                       |
|------------|----------|-----------------------|
| Oral       | LD50     | >20000 mg/kg (rat)    |
| Dermal     | LD50     | >10000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >6,82 mg/l (rat)      |

**9004-32-4 Carboxymethylcellulose Sodium**

|        |      |  |
|--------|------|--|
| Oral   | LD50 | > 27000 mg/kg (mouse)<br>27000 mg/kg (rat)<br>> 27000 mg/kg (rabbit) |
| Dermal | LD50 | >2000 mg/kg (rabbit)   |

**557-05-1 zinc distearate**

|      |      |  |
|------|------|--|
| Oral | LD50 | > 10000 mg/kg (mouse)<br>> 10000 mg/kg (rat) |
|------|------|--|

**2512-29-0 2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide**

|        |      |                    |
|--------|------|--------------------|
| Oral   | LD50 | >10000 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rat)  |

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.

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- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |  |
|--|--|
| · <b>14.1 UN-Number</b>  |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.2 UN proper shipping name</b>  |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.3 Transport hazard class(es)</b>   |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   |  |
| · <b>Class</b>   | Not applicable                                       |
| · <b>14.4 Packing group</b>  |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.5 Environmental hazards</b>  | Not applicable.                                      |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable.                                      |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                      |
| · <b>14.8 Transport/Additional information:</b>                                  | Not dangerous according to the above specifications. |

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- UN "Model Regulation": -

**SECTION 15: Regulatory information**

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

- MAK (German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

3A

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.

- National regulations:

- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation (20/6/2016)

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction (24/6/2016)

See Section 16 for information about restriction of use.

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorization List (14/8/2014)

None of the ingredients is listed.

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

**SECTION 16: Other information**

\*\*\*\*\*

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

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**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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