

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Card Ribbon - Black
- **Article type:** Resin-2P
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Printing on Cards
- **Details of the supplier of the safety data sheet**
- **Importer/Supplier:**
DNP IMS Netherlands BV
Schipholweg 275
1171PK Badhoevedorp
The Netherlands
- **Further information obtainable from:**
Safety, Health, Environmental and Quality Department.
reach@dnpribbons.eu
SHEQ Department
reach@dnpribbons.eu
- **Emergency telephone number:**
Phone: +31(0)20-449-9530 {during business hours, 08:00-18:00 (GMT+1:00, standard time)}
Fax: +31(0)20-659-7979

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of substances listed below.

· **Non-hazardous components:**

CAS: 1333-86-4 EINECS: 215-609-9	Carbon black	5.7-7.5%
CAS: 9011-14-7	Ploymethymethacrylate	22.4-30.3%

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CAS: 9003-22-9	Vinyl-acetate Vinyl-chloride copolymer	17.1-23.3%
CAS: 9002-89-5	Polyvinyl-alcohol	11.9-16.3%
CAS: 27341-67-9	Acrylic-copolymer	14.1-18.9%
CAS: 9002-88-4	Polyethylene	4.4-6.2%
	Polyurethane (trade secret)	9.2-12.7%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

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 symptoms persist consult 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 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **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** No special precautions are necessary if used correctly.

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- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **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.
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:** Not required.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Solid material
Colour:	Black
Odour:	Characteristic
Odour threshold:	Not determined.
- **pH-value:** Not applicable.

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· Change in condition Melting point/Melting range: Boiling point/Boiling range:	<i>Undetermined.</i> <i>Undetermined.</i>
· Flash point:	<i>Not applicable.</i>
· Flammability (solid, gaseous):	<i>Contact with water liberates extremely flammable gases.</i>
· Ignition temperature:	
Decomposition temperature:	<i>Not determined.</i>
· Self-igniting:	<i>Product is not selfigniting.</i>
· Danger of explosion:	<i>Not determined.</i>
· Explosion limits: Lower: Upper:	<i>Not determined.</i> <i>Not determined.</i>
· Vapour pressure:	<i>Not applicable.</i>
· Density: · Relative density · Vapour density · Evaporation rate	<i>Not determined.</i> <i>Not determined.</i> <i>Not applicable.</i> <i>Not applicable.</i>
· Solubility in / Miscibility with water:	<i>Insoluble.</i>
· Segregation coefficient (n-octanol/water):	<i>Not determined.</i>
· Viscosity: Dynamic: Kinematic:	<i>Not applicable.</i> <i>Not applicable.</i>
· Solvent content: Organic solvents: VOC (EC)	<i>0.0 %</i> <i>0.00 %</i>
Solids content:	<i>100.0 %</i>
· Other information	<i>No further relevant information available.</i>

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Possibility of hazardous reactions** *Contact with water releases flammable gases.*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:** *No dangerous decomposition products known.*

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11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **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.
- **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**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	Not Applicable
· UN proper shipping name	Not Applicable
· Transport hazard class(es)	Not Applicable
· Packing group	Not Applicable
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.

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- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

15 Regulatory information

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

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:**
Safety, Health, Environmental and Quality Department
DNP IMS Netherlands BV
- **Contact:**
- **Abbreviations and acronyms:**
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
VOC: Volatile Organic Compounds (USA, EU)
- **Products:** KO
- **Further Product Information:**
Dai Nippon Printing Co., Ltd.
Information Media Supplies Operations
1-1-1, Ichigaya-Kagacho, Shinjuku-ku,
Tokyo 162-0062, Japan
- **Data compared to the previous version altered.**

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