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

**1.1 Product identifier** 

| Identification / trade name: | Art. 4560, MX 100 D |
|------------------------------|---------------------|
| REACH registration number:   | not notifiable      |
| UFI:                         | UFWC-54RH-1E05-03EA |

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

**Use of the substance / mixture:** Print roll cleaner

### 1.3 Details of the supplier of the safety data sheet

| Supplier / Manufacturer:  | HWR-CHEMIE GmbH<br>Moosfeldstrasse 7<br>D-82275 Emmering |
|---|--|
| Telephone:  | 0049-8141-51030  |
| Telefax:  | 0049-8141-510355   |
| E-mail:   | info@hwr-chemie.de                                       |
| E-mail (competent person):<br>Information contact:<br>1.4 Emergency phone | infoSDB@hwr-chemie.de<br>Laboratory                      |
| Emergency phone Germany:  | 0049-8141-51030 (only during office hours)               |
| Emergency phone Austria:  | 0043 1 406 43 43 (poison information centre)             |

### **SECTION 2. Hazards identification**

### 2.1 Classification of the substance or mixture

**Regulation (EC) No 1272/2008** Asp. Tox. 1, H304; Skin sens. 1, H317; STOT RE 1, H372; Aquatic Chronic 3, H412

2.2 Label elements

Regulation (EC) No 1272/2008

Hazard pictograms



Signal word: Danger.

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### Hazard components for labeling

Hydrocarbons and Limonene

### Hazard statements

H304 May be fatal if swallowed and enters airways.

- H317 May cause an allergic skin reaction.
- H372 Causes damage to organs (central nervous system) through prolonged or repeated exposure if inhaled.
- H412 Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves and eye protection/face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P301 + P331 IF SWALLOWED: Do NOT induce vomiting.

P310 Immediately call a POISON CENTER or doctor/physician.

P501 Dispose of contents/container at hazardous or special waste collection point.

### 2.3 Other hazards

The substances in this mixture do not meet the PBT/vPvB criteria of REACH, annex XIII. The substances in this mixture do not have any endocrine disrupting properties.

### **SECTION 3.** Composition / information on ingredients

### 3.1 Substances

This product is a mixture.

### 3.2 Mixtures

### **Chemical characterization**

Mixture of hydrocarbons.

### Hazardous ingredients

90 - 95 % Hydrocarbons, C10-C13, n-Alkane, isoalkane, cyclic, aromatic (2-25%), EG 919-164-8,

- Asp. Tox. 1, H304; STOT RE 1, H372; Aquatic Chronic 3, H412
- 5 10 % Orange, sweet, extract, contains > 90 % D-Limonene, EG 232-433-8, CAS 8028-48-6,

Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin sens. 1, H317

### Additional information

Full text of hazard classes and H-phrases: see section 16

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### **SECTION 4. First aid measures**

### 4.1 Description of first aid measures

| General informations:    | In case of persistent symptoms seek medical advice. Remove contaminated clothing. In case of unconsciousness place patient into stable side position for transportation. Never give fluids or induce vomiting if patient is unconscious or is having convulsions. |
|--------------------------|---|
| In case of inhalation:   | Provide affected person with fresh air and seek medical advice depending on the symptoms.   |
| In case of skin contact: | Contaminated, soaked clothing should be immediately removed. Wash skin thoroughly with soap and water.  |
| In case of eye contact:  | Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.   |
| In case of ingestion:    | Rinse mouth immediately and then drink plenty of water. Do not induce vomiting.<br>Seek medical advice at once. In case of spontaneous vomiting hold the head of<br>the casualty low with the body in a prone position in order to avoid aspiration.              |

### 4.2 Most important symptoms and effects, both acute and delayed

Dizziness, headache. Contact with eyes may cause reddening, running eyes and smarting pain. Ingestion may result in nausea and stomach pain. Skin contact may cause irritation.

### 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment (decontamination, vital functions), no known specific antidote.

### **SECTION 5. Fire-fighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media:Water spray jet / alcohol resistant foam / CO2 / dry extinguishing powderUnsuitable extinguishing media:Full water jet.

### 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire. In case of fire may be liberated: carbon oxides.

### 5.3 Advice for fire-fighters

Cool closed containers exposed to fire with water spray jet. Special protective equipment: Wear full protective suit with self-contained breathing apparatus.

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### **SECTION 6. Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation and contact with skin and eyes. Wear protection equipment.

### 6.2 Environmental precautions

Large quantities of spills should be contained by. Do not allow to enter undiluted into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

Absorb with an absorbent material and dispose of according to local regulations.

### 6.4 Reference to other sections

Observe protective measures in sections 8 and disposal considerations in section 13.

### **SECTION 7. Handling and Storage**

### 7.1 Precautions for safe handling

### Advices on safe handling

Wear protective clothing. Open carefully and keep container closed when not in use. Use only in well-ventilated areas or provide local extraction. Avoid release into the environment. General hygiene measures:

- Eating, drinking or smoking is prohibited in areas, where work is performed.

- Wash your hands after use.
- Take off contaminated clothing and protective equipment before entering eating areas.

### Precautions against fire and explosion

Flammable vapour/air-mixtures may be formed. Ground/bond container and receiving equipment. Use only spark-/explosionproof appliances in danger zones. Take precautionary measures against static discharges.

### 7.2 Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed in a cool and well-ventilated place. Store locked up. Storage compatibility and limitations according to TRGS 510 must be observed.

### 7.3 Specific end uses

Observe product information sheet. eCl@ss (8.0): 30-02-06-01

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### **SECTION 8. Exposure controls / Personal protection**

### 8.1 Control parameters

### Workplace exposure limits according to TRGS 900

Substances: Hydrocarbon mixture, C9-C15 Aliphatics Occupational exposure limit: 600 mg/m<sup>3</sup> Top limiting and exceedance factor: 2 (II)

Substances: Hydrocarbon mixture, C9-C15 Aromatics Occupational exposure limit: 100 mg/m<sup>3</sup> Top limiting and exceedance factor: 2 (II)

Substances: (R)-p-Mentha-1,8-diene (D-Limonene) Occupational exposure limit: 5 ppm, 28 mg/m<sup>3</sup> Top limiting and exceedance factor: 4 (II) Notes: H, Sh, Y, DFG

### 8.2 Exposure controls / Personal protection equipment

### Appropriate engineering controls

See section 7. No additional measures necessary.

### Personal protection equipment

| Respiratory protection: | In case of excessive vapours wear a respirator mask filter A2.                          |
|-------------------------|---|
| Hand protection:        | Tested gloves with breakthrough time >= 8 hours made from NBR (0.35 mm) or FKM (0.4 mm) |
| Eye protection:         | use safety goggles  |
| Protective clothing:    | usual work clothes  |

### General health and safety measures

Respect good personal hygiene. Do not drink, eat or smoke while handling.

### Environmental exposure controls

See section 6 and 7.

### **SECTION 9.** Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

### **General information**

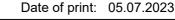
| Physical state:                    | liquid         |
|------------------------------------|----------------|
| Colour:                            | light blue     |
| Odour:                             | benzine        |
| pH value (undiluted):              | not applicable |
| Melting point/Freezing point (°C): | < -15          |

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| Boiling temperature (°C):    | 160 - 230              |
|------------------------------|------------------------|
| • • • • •                    |                        |
| Flashpoint (°C):             | > 61                   |
| Flammability (solid, gas):   | not applicable         |
| Lower explosion limit:       | not determined         |
| Upper explosion limit:       | not determined         |
| Vapour pressure (hPa):       | not determined         |
| Relative vapor density:      | not determined         |
| Density (20 °C):             | 0.81                   |
| Solubility:                  | not mixable with water |
| Partition coefficient (KOW): | not determined         |
| Ignition temperature:        | not determined         |
| Decomposition temperature:   | not determined         |
| Dynamic viscosity (mPas):    | < 5                    |
| Particle properties:         | not applicable         |
|                              |                        |

### 9.2 Other information

### Other safety characteristics

No other physical and chemical data has been recorded.

### **SECTION 10. Stability and Reactivity**

### 10.1 Reactivity

Mixture of solvents, no particular reactivity expected.

### 10.2 Chemical stability

Stable under the specified storage conditions.

### 10.3 Possibility of hazardous reactions

There are expected no hazardous reactions for intended use.

### 10.4 Conditions to avoid

Avoid heat, direct sunlight, electrostatic discharges and sparks. Note the information about handling and storage in section 7.

### 10.5 Incompatible materials

Different plastics can be attacked.

### **10.6 Hazardous decomposition products**

No hazardous decomposition products known.

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### **SECTION 11. Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Acute toxicity

The mixture does not meet the criteria for classification.

### Skin Corrosion / Irritation

The mixture does not meet the criteria for classification.

### Serious Eye Damage / Irritation

Mixture does not contain any substances with eye irritation / damage.

### Sensitisation

Sensitising by skin contact.

### CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Mixture does not contain any substances which are classified as carcinogenic, mutagenic or toxic for reproduction.

### Specific target organ toxicity (single exposure)

Mixture does not contain any substances with specific target organ toxicity (single exposure).

### Specific target organ toxicity (repeated exposure)

Causes damage to organs (central nervous system) through prolonged or repeated exposure if inhaled.

### Aspiration hazard

May be fatal if swallowed and enters airways.

### 11.2 Information on other hazards

### Endocrine disrupting properties

This mixture does not contain any substances which are identified as endocrine disrupting.

### Other information

No further data available.

### **SECTION 12. Ecological information**

The available data refer to the substances in the mixture. The mixture as a whole has not been tested.

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### 12.1 Toxicity

Hydrocarbons, C10-C13, n-Alkane, isoalkane, cyclic, aromatic (2-25%) Acute toxicity fishes: LC50 (96 h) = 10 - 100 mg/L (Oncorhynchus mykiss) (Literature) Acute toxicity crustacea: EC50 (48 h) = 10 - 22 mg/L (Daphnia Magna) (Literature) Acute toxicity algae: EC50 (72 h) = 50 -100 mg/L (Pseudokirchneriella subcapitata) (Literature) Long-term toxicity crustacea: NOEC (21 d) = 0.097 mg/L (Daphnia Magna) (Literature)

Orange, sweet, extract Acute toxicity fishes: LC50 (96 h) = 0.7 mg/L (Pimephales promelas) (OECD 203) Acute toxicity crustacea: EC50 (48 h) = 0.67 mg/L (Daphnia Magna) (OECD 202) Acute toxicity algae: ErC50 (72 h) = 150 mg/L (Desmodesmus subspicatus) (OECD 201)

### 12.2 Persistence and degradability

Hydrocarbons, C10-C13, n-Alkane, isoalkane, cyclic, aromatic (2-25%) Readily biodegradable (74.7%, OECD criteria)

Orange, sweet, extract Readily biodegradable (72-83.4%, OECD 301B)

### 12.3 Bioaccumulative potential

Hydrocarbons, C10-C13, n-Alkane, isoalkane, cyclic, aromatic (2-25%) Bioaccumulation is potentially possible.

Orange, sweet, extract No further relevant information available.

### 12.4 Mobility in soil

Hydrocarbons, C10-C13, n-Alkane, isoalkane, cyclic, aromatic (2-25%) Absorption to solid soil phase is possible. Substance is highly volatile.

Orange, sweet, extract No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances which are identified as PBT or vPvB.

### 12.6 Endocrine disrupting properties

This mixture does not contain any substances which are identified as endocrine disrupting.

### 12.7 Other adverse effects

The mixture does not contain any substances which are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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### **SECTION 13. Disposal considerations**

### 13.1 Waste treatment methods

### Recommendation

Cleaning concentrates should not be disposed of via wastewater. Hazardous waste according to European list of wastes. Dispose of in accordance with local, official regulations.

### Waste codes/waste designations according to EWC

20 01 13 (Solvents)

### Packaging

### Contaminated package

Hazardous waste according to European list of wastes. Dispose of in accordance with local, official regulations. Waste code 15 01 10 (packaging containing residues of or contaminated by hazardous substances)

### Cleaned package

Non contaminated and clean packagings can be used for recycling.

### **SECTION 14. Transport information**

### 14.1 UN number or ID number

not applicable

### 14.2 UN Proper shipping name:

### ADR / RID:

No dangerous good in sense of this transport regulation.

### IMDG-Code / ICAO-TI / IATA-DGR:

No dangerous good in sense of this transport regulation.

### 14.3 Transport hazard class(es)

ADR / RID / IMDG-Code / ICAO-TI / IATA-DGR: not applicable

**14.4 Packing group** not applicable

# **14.5 Environmental hazards** not applicable

### 14.6 Special precautions for user

See section 6 and 8.

**14.7 Maritime transport in bulk according to IMO instruments** not applicable

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### SECTION 15. Regulatory information

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

### EU regulations

Subject to the Regulation (EC) No. 648/2004 on detergents.

### National regulations

Maternity Protection Act (MuSchG): not applicable. Major Accidents Ordinance (12. BImSchV): not applicable. Observe employment restrictions for young people (§ 22 JArbSchG). Water hazard class: WGK 3 (in accordance with German regulation AwSV) VOC content according to 31. BImSchV: 100 %

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has not been carried out.

### **SECTION 16.** Other information

### Indication of changes

Revised sections: 1, 15

### Hazard statements referred to in Section 2 and 3 i.a.w. Regulation (EC) No 1272/2008

Flam. Liq 3, H226 = Flammable liquids, category 3, Flammable liquid and vapour. Asp. Tox. 1, H304 = Aspiration hazard, category 1, May be fatal if swallowed and enters airways. Skin Irrit. 2, H315 = Skin corrosion / irritation, category 2, Causes skin irritation. Skin Sens. 1A/B, H317 = Skin sensitisation, category 1A/B, May cause an allergic skin reaction. STOT RE 1, H372 = Specific target organ toxicity (repeated exposure), category 1, Causes damage to organs through prolonged or repeated exposure. Aquatic Chronic 2, H411 = Hazardous to the aquatic environment, chronic, category 2, Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3, H412 = Hazardous to the aquatic environment, chronic, category 3, Harmful to aquatic life with long lasting effects.

### Key literature references and sources for data

REACH Regulation (EC) No. 1907/2006 CLP Regulation (EC) No. 1272/2008

All data were taken from the safety data sheets of our sub-suppliers, where available. Missing data were taken from the Substance Database GESTIS of the Institute for Occupational Safety and Health of the German statutory accident insurance or from the database of the European Chemicals Agency (ECHA).



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### Legend

| Legena  |   |
|---------|---|
| ABEK    | Filter designation  |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road                 |
| ATE mix | Acute Toxicity Estimates for mixtures   |
| AVV     | European waste list regulation  |
| AwSV    | Ordinance on systems for handling water-polluting substances  |
| Butyl   | Butyl rubber  |
| CAŚ     | (Registration number) Chemical Abstracts Service  |
| CLP     | Regulation on classification, labelling and packaging of substances and mixtures                    |
| CMR     | Carcinogenicity, mutagenicity, reproductive toxicity  |
| CR      | Chloroprene rubber  |
| EC50    | Median effective concentration  |
| ĒG      | (Registration number) European Union  |
|         | Median effective concentration  |
|         | Federal Insecticide, Fungicide and Rodenticide Act  |
| FKM     | Fluorocarbon rubber   |
|         | E Labelling system of the professional associations in the construction industry                    |
|         | GR International Air Transport Association - Dangerous Goods Regulations                            |
| IBC     | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
|         | Technical Instructions For The Safe Transport of Dangerous Goods by Air                             |
| IMDG    | International Maritime Dangerous Goods  |
| LC50    | Lethal concentration of a substance leading to the death of 50% of the exposed organisms            |
| LD50    | Lethal dose of a substance that leads to death of 50% of the organisms exposed to it                |
| MARPO   | L International Convention for the Prevention of Pollution from Ships                               |
| NBR     | Acrylonitrile butadiene rubber  |
|         | No Observed Effect Concentration  |
| NOEL    | No Observed Effect Level  |
| NR      | Natural rubber  |
| OECD    | Organisation for Economic Co-operation and Development  |
| PBT     | Persistent, bioaccumulating, toxic  |
| PET     | Polyethylene terephthalate  |
| PTFE    | Polytetrafluoroethylene   |
| PVC     | Polyvinyl chloride  |
|         | Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals      |
| RID     | Convention concerning International Carriage by Rail  |
|         | Technical Rules for Hazardous Substances  |
| UN      | United Nations  |
|         | United States Environmental Protection Agency   |
|         | Volatile Organic Compounds  |
| vPvB    | Very persistent, very bioaccumulating   |
| WCK     | Water bazard class  |

WGK Water hazard class

### **Further information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal.