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

### 1.1 Product identifier

**Identification / trade name:** Art. 5300, TB 2000
**REACH registration number:** not notifiable

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

**Use of the substance / mixture:**
Parts and brakes cleaner

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


**Supplier / Manufacturer:** HWR-CHEMIE GmbH
Moosfeldstrasse 7
D-82275 Emmering

**Telephone:** 0049-8141-51030
**Telefax:** 0049-8141-510355
**E-mail:** info@hwr-chemie.de

**E-mail (competent person):** infoSDB@hwr-chemie.de
**Information contact:** Laboratory


### 1.4 Emergency phone

**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**
Flam. Liq. 2, H225; Asp. Tox. 1, H304; Eye Irrit. 2, H319; STOT SE 3, H336; Aquatic Chronic 2, H411

### 2.2 Label elements

**Regulation (EC) No 1272/2008**

**Hazard pictograms**

**Signal word:** Danger.

Continued on next page

**Hazard components for labeling**

Hydrocarbons, C7-C9, n-alkane, isoalkane, cyclic

**Hazard statements**

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing mist / vapours / spray.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P301+ P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.
P331 Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403 + P233 Store in a well ventilated place. Keep container tightly closed.
P501 Dispose of contents / container at hazardous or special waste collection point.

**Supplementary Hazard Information**

EUH066 Repeated exposure may cause skin dryness or cracking.

**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, alcohols and ether solvents.

**Hazardous ingredients**

30 - 50 % Dimethoxymethane, EG 203-714-2, CAS 109-87-5, Flam. Liq. 2, H225; Eye Irrit. 2, H319
30 - 50 % Hydrocarbons, C7-C9, n-alkane, isoalkane, cyclic, EG 920-750-0, CAS 64742-49-0, Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic; Chronic 2, H411; STOT SE 3, H336
10 - 20 % 2-Propanol, EG 200-661-7, CAS 67-63-0, Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336

**Additional information**

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

Continued on next page

## 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. Seek medical advice at once. In case of spontaneous vomiting hold the head of 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 powder

**Unsuitable 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.
Collect contaminated fire extinguishing water separately. Do not allow entering drains, surface water or soil.

Continued on next page

## 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. Provide adequate ventilation.

### 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. Ventilate affected area.

### 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): 30-02-16-19

Continued on next page

## SECTION 8. Exposure controls / Personal protection

### 8.1 Control parameters

**Workplace exposure limits according to TRGS 900**

Substances: Dimethoxymethane
Occupational exposure limit: 500 ppm, 1600 mg/m³
Top limiting and exceedance factor: 2 (II)
Notes: DFG, Y

Substances: Propane-2-ol
Occupational exposure limit: 200 ppm, 500 mg/m³
Top limiting and exceedance factor: 2 (II)
Notes: DFG, Y

**Biological limits according to TRGS 903**

Substances: Propane-2-ol
Parameters: Aceton
Biological limit value: 25 mg/l / 25 mg/l
Test material and sampling time: B b / U b

### 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 brief exposure or low pollution use respiratory filter device (DIN EN 141); during intensive or longer exposure use self-contained breathing apparatus (DIN EN 133). Not necessary if room is well-ventilated. |
| **Hand protection:** | Tested gloves with breakthrough time >= 8 hours made from NBR (0.35 mm) or FKM (0.4 mm) |
| **Eye protection:** | Safety goggles |
| **Protective clothing:** | Solvent-resistant protective clothing |

**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.

Continued on next page

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**General information**

| | |
|---|---|
| **Physical state:** | liquid |
| **Colour:** | colourless |
| **Odour:** | characteristic |
| **pH value (undiluted):** | not applicable |
| **Melting point/Freezing point (°C):** | < -30 |
| **Boiling temperature (°C):** | > 60 |
| **Flashpoint (°C):** | -24 |
| **Flammability (solid, gas):** | not applicable |
| **Lower explosion limit:** | not determined |
| **Upper explosion limit:** | not determined |
| **Vapour pressure (hPa):** | approx. 200 |
| **Relative vapor density:** | not determined |
| **Density (20 °C):** | approx. 0.79 |
| **Solubility:** | not mixable with water |
| **Partition coefficient (KOW):** | not determined |
| **Ignition temperature:** | not determined |
| **Decomposition temperature:** | not determined |
| **Dynamic viscosity (mPas):** | < 10 |
| **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.

Continued on next page

**10.5 Incompatible materials**

Different plastics can be attacked.

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

## 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**

Mixture does not contain any substances with skin irritation / corrosion.

**Serious Eye Damage / Irritation**

Mixture is classified as irritating to the eyes.

**Sensitisation**

Mixture does not contain any sensitising substances.

**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)**

May cause drowsiness or dizziness.

**Specific target organ toxicity (repeated exposure)**

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

**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.

Continued on next page

## SECTION 12. Ecological information

### 12.1 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
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
No further relevant information available.

## SECTION 13. Disposal considerations

### 13.1 Waste treatment methods

**Recommendation**

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.

Continued on next page

## SECTION 14. Transport information

**14.1 UN number or ID number**
1993

**14.2 UN Proper shipping name:**

**ADR / RID:**
Flammable liquid, n.o.s. (Methylal, Naphtha (petroleum), hydrotreated light)

**IMDG-Code / ICAO-TI / IATA-DGR:**
Flammable liquid, n.o.s. (Methylal, Naphtha (petroleum), hydrotreated light), Marine pollutant

**14.3 Transport hazard class(es)**

**ADR / RID / IMDG-Code / ICAO-TI / IATA-DGR:**
3

**14.4 Packing group**
II

**14.5 Envirommental hazards**
environmentally hazardous

**14.6 Special precautions for user**
See section 6 and 8.

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

## SECTION 15. Regulatory information

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

**National regulations**
Observe employment restrictions for young people (§ 22 JArbSchG).
Water hazard class: WGK 1 (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.

Continued on next page

## SECTION 16. Other information

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

Flam. Liq 2, H225 = Flammable liquids, category 2, Highly flammable liquid and vapour.
Asp. Tox. 1, H304 = Aspiration hazard, category 1, May be fatal if swallowed and enters airways.
Eye Irrit. 2, H319 = Eye damage / irritation, category 2, Causes serious eye irritation.
STOT SE 3, H336 = Specific target organ toxicity (single exposure), category 3, May cause drowsiness or dizziness.
Aquatic Chronic 2, H411 = Hazardous to the aquatic environment, chronic, category 2, Toxic to aquatic life with long lasting effects.

**Key literature references and sources for data**

REACH Regulation (EC) No. 1907/2006 last amended by Regulation (EU) 2016/2235
CLP Regulation (EC) No. 1272/2008 last amended by Regulation (EU) 2016/1179

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).

Continued on next page

**Legend**

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
CAS (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
EG (Registration number) European Union
ErC50 Median effective concentration
FIFRA Federal Insecticide, Fungicide and Rodenticide Act
FKM Fluorocarbon rubber
GISCODE Labelling system of the professional associations in the construction industry
IATA-DGR International Air Transport Association - Dangerous Goods Regulations
IBC International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI 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
MARPOL International Convention for the Prevention of Pollution from Ships
NBR Acrylonitrile butadiene rubber
NOEC 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
REACH Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Convention concerning International Carriage by Rail
TRGS Technical Rules for Hazardous Substances
UN United Nations
US-EPA United States Environmental Protection Agency
VOC Volatile Organic Compounds
vPvB Very persistent, very bioaccumulating
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.

End of safety data sheet