

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH)



## Art. 2160, E 75 SPEZIAL

Version: 15

Revision date: 14.02.2024

Date of print: 14.02.2024

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

#### 1.1 Product identifier

**Identification / trade name:** Art. 2160, E 75 SPEZIAL  
**REACH registration number:** not notifiable  
**UFI:** UR3Y-26KR-960J-587M

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

**Use of the substance / mixture:**  
Cleaning agent

#### 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**  
Eye Irrit. 2, H319; STOT SE 3, H335

#### 2.2 Label elements

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

**Hazard pictograms**



**Signal word:** Warning.

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### Hazard statements

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

### Precautionary statements

P261 Avoid breathing vapours / spray.

P280 Wear protective gloves and eye protection / face protection.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

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

P337 + P313 If eye irritation persists: Get medical advice/attention.

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

### Supplementary Hazard Information

EUH208 Contains D-Limonene. May produce an allergic reaction.

### 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 surfactants, citric acid, fragrance and auxiliaries in water.

#### Hazardous ingredients

30 - 50 % Citric acid, EG 201-069-1, CAS 5949-29-1, Eye Irrit. 2, H319; STOT SE 3, H335

< 3 % Alcohol C10-16, ethoxylated, propoxylated, CAS 69227-22-1, Acute Tox. 4, H302; Eye Dam. 1, H318

< 3 % Alcohol C8-14, aliphatic, alkoxyated, polymer, Acute Tox. 4, H302; Eye Irrit. 2, H319

< 1 % Orange, sweet, extract, contains > 90 % D-Limonene, EG 232-433-8, CAS 8028-48-6, Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin sens. 1, H317; Aquatic Chronic 2, H411

#### Additional information

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

## 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.

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- 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 / foam / CO<sub>2</sub> / dry extinguishing powder

**Unsuitable extinguishing media:** Full water jet.

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

None suspected.

### 5.3 Advice for fire-fighters

The product itself is not flammable. Co-ordinate fire-fighting measures to the fire surroundings. Special protective equipment: Wear full protective suit with self-contained breathing apparatus.

## SECTION 6. Accidental release measures

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

Avoid contact with skin and eyes. Wear protective 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. Alkalis may be used for pH neutralization.

### 6.4 Reference to other sections

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

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### 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.

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

Product does not burn itself.

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

##### Requirements for storage rooms and vessels

Store in tightly closed original container in a dry and cool place.

Storage compatibility and limitations according to TRGS 510 must be observed.

#### 7.3 Specific end uses

Observe product information sheet.

eCl@ss (8.0): 30-02-16-90 / GISCODE: GS35

### SECTION 8. Exposure controls / Personal protection

#### 8.1 Control parameters

##### Workplace exposure limits according to TRGS 900

Substances: Citric acid

Occupational exposure limit: 2 mg/m<sup>3</sup> E

Top limiting and exceedance factor: 2 (I)

Notes: DFG, Y

Substances: 2-(2-Ethoxyethoxy)ethanol

Occupational exposure limit: 6 ppm, 35 mg/m<sup>3</sup>

Top limiting and exceedance factor: 2 (1)

Notes: AGS, Y, 11

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

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### 8.2 Exposure controls / Personal protection equipment

#### Appropriate engineering controls

See section 7. No additional measures necessary.

#### Personal protection equipment

**Respiratory protection:** No personal respiratory protective equipment normally required.

**Hand protection:** Tested gloves with breakthrough time  $\geq$  8 hours made from NR 0.5 mm, CR 0.5 mm, NBR 0.35 mm, Butyl 0.5 mm, FKM 0.4 mm, PVC 0.5 mm

**Eye protection:** use safety goggles

**Protective clothing:** usual work clothes

#### General health and safety measures

Respect good personal hygiene.

#### 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

|   |                               |
|---|-------------------------------|
| <b>Physical state:</b>                    | liquid                        |
| <b>Colour:</b>                            | colourless                    |
| <b>Odour:</b>                             | mild                          |
| <b>pH value (undiluted):</b>              | approx. 1                     |
| <b>pH value (1 %):</b>                    | approx. 3                     |
| <b>Melting point/Freezing point (°C):</b> | approx. -15                   |
| <b>Boiling temperature (°C):</b>          | approx. 100                   |
| <b>Flashpoint (°C):</b>                   | not applicable                |
| <b>Flammability (solid, gas):</b>         | not applicable                |
| <b>Lower explosion limit:</b>             | not determined                |
| <b>Upper explosion limit:</b>             | not determined                |
| <b>Vapour pressure (hPa):</b>             | approx. 23                    |
| <b>Relative vapor density:</b>            | not determined                |
| <b>Density (20 °C):</b>                   | approx. 1.20                  |
| <b>Solubility:</b>                        | completely mixable with water |
| <b>Partition coefficient (KOW):</b>       | not determined                |
| <b>Ignition temperature:</b>              | not determined                |
| <b>Decomposition temperature:</b>         | not determined                |
| <b>Dynamic viscosity (mPas):</b>          | < 10                          |
| <b>Particle properties:</b>               | not applicable                |

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### 9.2 Other information

#### Other safety characteristics

No other physical and chemical data has been recorded.

## SECTION 10. Stability and Reactivity

### 10.1 Reactivity

Reacts with strong alkalis under intense heat development. May heat up during dilution.

### 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

No hazardous conditions known. Note the information about handling and storage in section 7.

### 10.5 Incompatible materials

Avoid contact with aluminum, magnesium, tin, zinc and other base metals (hydrogen gas formation possible).

### 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

Alcohol C8-14, aliphatic, alkoxyated, polymer  
LD50 oral > 300-2000 mg/kg body weight (rat) (OECD 423)

Alcohols, C10-16, ethoxyated, propoxyated  
LD50 oral > 300-2000 mg/kg body weight (rat) (directive 84/449/EWG, B.1)

Acute Toxicity Estimate of the mixture:  
ATE mix (oral) > 2000 mg/kg body weight

#### Skin Corrosion / Irritation

The mixture does not meet the criteria for classification.

#### Serious Eye Damage / Irritation

Causes serious eye irritation. (Chief ingredient tested according to OECD 405.)

#### Sensitisation

The sensitising substances in the mixture do not meet the criteria for classification.

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

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

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### Specific target organ toxicity (single exposure)

May cause respiratory irritation.

### Specific target organ toxicity (repeated exposure)

Mixture does not contain any substances with specific target organ toxicity.

### Aspiration hazard

Not classified. Mixture does not contain any hydrocarbons.

## 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.

### 12.1 Toxicity

Alcohol C8-14, aliphatic, alkoxyated, polymer

Acute toxicity fishes:

LC50 (96 h) > 10 - 100 mg/L (Brachydanio rerio) (OECD 203)

Acute toxicity crustacea:

EC50 (48 h) > 10 - 100 mg/L (Daphnia Magna) (OECD 202)

Acute toxicity algae:

EC50 (72 h) > 10 - 100 mg/L (Scenedesmus subspicatus) (92/69/EWG. C.3)

Long-term toxicity algae:

NOEC (72 h) > 0.1 - 1 mg/L (Scenedesmus subspicatus) (92/69/EWG. C.3)

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

Citric acid

Readily biodegradable (98%, OECD 302B)

Alcohol C10-16, ethoxylated, propoxylated

Readily biodegradable (according to OECD criteria)

Alcohol C8-14, aliphatic, alkoxyated, polymer

Readily biodegradable (>60%, OECD 301B)

Orange, sweet, extract

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

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

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### 12.3 Bioaccumulative potential

Citric acid

Not expected to bioaccumulate.

Alcohol C10-16, ethoxylated, propoxylated

Not expected to bioaccumulate.

Alcohol C8-14, aliphatic, alkoxyated, polymer

Not expected to bioaccumulate.

Orange, sweet, extract

No further relevant information available.

### 12.4 Mobility in soil

Citric acid

No further relevant information available.

Alcohol C10-16, ethoxylated, propoxylated

Absorption to solid soil phase is possible. Substance is not volatile.

Alcohol C8-14, aliphatic, alkoxyated, polymer

Absorption to solid soil phase is possible. Substance is not 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.

## 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 29 (detergents containing hazardous substances)



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### 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

## 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 2 (in accordance with German regulation AwSV)

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### 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: 2, 3, 11, 16

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

Acute Tox. 4, H302 = Acute toxicity, category 4, Harmful if swallowed.

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.

Eye Dam. 1, H318 = Eye damage / irritation, category 1, Causes serious eye damage.

Eye Irrit. 2, H319 = Eye damage / irritation, category 2, Causes serious eye irritation.

STOT SE 3, H335 = Specific target organ toxicity (single exposure), category 3, May cause respiratory irritation.

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

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

|          |   |
|----------|---|
| 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.