

# SAFETY DATA SHEET

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



## Art. 2520, ALL-FORTE

Version: 11

Revision date: 10.08.2022

Date of print: 10.08.2022

Page: 1

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

#### 1.1 Product identifier

**Identification / trade name:** Art. 2520, ALL-FORTE  
**REACH registration number:** not notifiable  
**UFI:** UA44-48MF-F70G-XEQE

#### 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**  
Skin Corr. 1B, H314

#### 2.2 Label elements

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

**Hazard pictograms**



**Signal word:** Danger.

# SAFETY DATA SHEET

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



## Art. 2520, ALL-FORTE

Version: 11

Revision date: 10.08.2022

Date of print: 10.08.2022

Page: 2

### Hazard components for labeling

Sodium metasilicate and 2-Amino-ethanol

### Hazard statements

H314 Causes severe skin burns and eye damage.

### Precautionary statements

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

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

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

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 surfactants, silicates, watersoluble solvents and auxiliaries in water.

#### Hazardous ingredients

1 - 5 % Sodium metasilicate, EG 229-912-9, CAS 6834-92-0,

Met. Corr. 1, H290; Skin corr. 1B, H314; STOT SE 3, H335

1 - 5 % Propylenglycolbutylether, EG 225-878-4, CAS 5131-66-8,

Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319

1 - 5 % 2-Amino-ethanol, EG 205-483-3, CAS 141-43-5,

Acute Tox. 4, H302, H312, H332; Skin corr. 1B, H314; STOT SE 3, H335; Aquatic Chronic 3, H412

#### 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.

# SAFETY DATA SHEET

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



## Art. 2520, ALL-FORTE

Version: 11

Revision date: 10.08.2022

Date of print: 10.08.2022

Page: 3

- In case of skin contact:** Contaminated, soaked clothing should be immediately removed. Wash skin thoroughly with soap and water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.
- 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.
- Additional hints:** Self-protection of the first aider: wear protective clothing, gloves and safety goggles (see Section 8).

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

Contact with eyes may cause reddening, running eyes and smarting pain. Prolonged contact may lead to irreversible damage up to blindness. Ingestion may cause severe pain in the digestive tract. Possible burn of the upper part of gastrointestinal tract. Inhalation may cause cough and shortness of breath. Risk of pulmonary oedema.

### 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, extinguishing powder with ammonium salts.

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

Spilled material reacts with certain metals (e.g. lead, aluminium, zinc and magnesium) to form hydrogen gas. In case of fire may be liberated: corrosive vapors.

### 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. Acids may be used for pH neutralization.

### 6.4 Reference to other sections

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

# SAFETY DATA SHEET

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



## Art. 2520, ALL-FORTE

Version: 11

Revision date: 10.08.2022

Date of print: 10.08.2022

Page: 4

### 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 only in the original container or a corrosion-resistant container. 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): 30-02-11-01 / GISCODE: GG80

### SECTION 8. Exposure controls / Personal protection

#### 8.1 Control parameters

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

Substances: 2-Amino-ethanol

Occupational exposure limit: 0.2 ppm, 0.5 mg/m<sup>3</sup>

Top limiting and exceedance factor: 1 (I)

Notes: DFG, EU, H, Y, Sh, 11

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

##### Community workplace exposure limits

Substances: 2-Amino-ethanol

EU limits (8h): 2.5 mg/m<sup>3</sup>, 1 ppm

EU limits (Short-term): 7.6 mg/m<sup>3</sup>, 3 ppm

Notes: Haut

# SAFETY DATA SHEET

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



## Art. 2520, ALL-FORTE

Version: 11

Revision date: 10.08.2022

Date of print: 10.08.2022

Page: 5

### 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. 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

<b>Physical state:</b>	liquid
<b>Colour:</b>	colourless
<b>Odour:</b>	glycolic
<b>pH value (undiluted):</b>	approx. 13
<b>pH value (1 %):</b>	approx. 11
<b>Melting point/Freezing point (°C):</b>	approx. -10
<b>Boiling temperature (°C):</b>	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. 1.04
<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

Continued on next page

# SAFETY DATA SHEET

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



## Art. 2520, ALL-FORTE

Version: 11

Revision date: 10.08.2022

Date of print: 10.08.2022

Page: 6

### 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 acids under 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

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

2-Amino-ethanol

LD50 oral = 1515 mg/kg body weight (rat) (OECD 401)

LD50 dermal = 1000 mg/kg body weight (rat) (literature)

LC50 inhalative (4h) = 1-5 mg/l (rat) (literature)

The European Union (EU) has classified this substance as 'harmful'. The vapour was tested.

Acute Toxicity Estimate of the mixture:

ATE mix (oral) > 2000 mg/kg body weight

ATE mix (dermal) > 2000 mg/kg body weight

ATE mix (inhalative, vapour) > 20 mg/l

#### Skin Corrosion / Irritation

Mixture is classified as corrosive to the skin.

#### Serious Eye Damage / Irritation

Mixture causes serious eye damage.

#### Sensitisation

Mixture does not contain any sensitising substances.

# SAFETY DATA SHEET

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



## Art. 2520, ALL-FORTE

Version: 11

Revision date: 10.08.2022

Date of print: 10.08.2022

Page: 7

### CMR effects (carcinogenicity, 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 is not classified as specific target organ toxic (single exposure).

### Specific target organ toxicity (repeated exposure)

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

### 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

2-Amino-ethanol

Acute toxicity fishes:

LC50 (96 h) = 150 mg/L (Oncorhynchus mykiss) (Literature)

Acute toxicity crustacea:

EC50 (48 h) = 65 mg/L (Daphnia magna) (Literature)

Acute toxicity algae:

EC50 (72 h) = 15 mg/L (Scenedesmus subspicatus) (Literature)

### 12.2 Persistence and degradability

Sodium metasilicate

Hydrolysis in water. Methods for determining the biological degradability are not applicable to inorganic substances.

Propylenglycolbutylether

Readily biodegradable (90%, OECD 301E)

2-Amino-ethanol

Readily biodegradable. (90-100%, OECD 301F)

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

# SAFETY DATA SHEET

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



## Art. 2520, ALL-FORTE

Version: 11

Revision date: 10.08.2022

Date of print: 10.08.2022

Page: 8

### 12.3 Bioaccumulative potential

Sodium metasilicate  
Not expected to bioaccumulate.

Propylenglycolbutylether  
Not expected to bioaccumulate.

2-Amino-ethanol  
Not expected to bioaccumulate.

### 12.4 Mobility in soil

Sodium metasilicate  
No further relevant information available.

Propylenglycolbutylether  
Absorption to solid soil phase is not expected. Substance is not volatile.

2-Amino-ethanol  
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)

#### 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.

# SAFETY DATA SHEET

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



## Art. 2520, ALL-FORTE

Version: 11

Revision date: 10.08.2022

Date of print: 10.08.2022

Page: 9

### SECTION 14. Transport information

#### 14.1 UN number or ID number

1719

#### 14.2 UN Proper shipping name:

##### ADR / RID:

Caustic alkali liquid, n.o.s. (Sodium metasilicate, 2-Amino-ethanol)

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

Caustic alkali liquid, n.o.s. (Sodium metasilicate, 2-Amino-ethanol)

#### 14.3 Transport hazard class(es)

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

8

#### 14.4 Packing group

III

#### 14.5 Environmental hazards

Not classified.

#### 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 1 (in accordance with German regulation AwSV)

#### 15.2 Chemical Safety Assessment

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

# SAFETY DATA SHEET

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



## Art. 2520, ALL-FORTE

Version: 11

Revision date: 10.08.2022

Date of print: 10.08.2022

Page: 10

### SECTION 16. Other information

#### Indication of changes

Revised sections: 1.1, 15.1

#### 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.

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

Acute Tox. 4, H312 = Acute toxicity, category 4, Harmful in contact with skin.

Skin Corr. 1A/B/C, H314 = Skin corrosion / irritation, category 1A/B/C, Causes severe skin burns and eye damage.

Skin Irrit. 2, H315 = Skin corrosion / irritation, category 2, Causes skin irritation.

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

Acute Tox. 4, H332 = Acute toxicity, category 4, Harmful if inhaled.

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

#### 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).

# SAFETY DATA SHEET

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



## Art. 2520, ALL-FORTE

Version: 11

Revision date: 10.08.2022

Date of print: 10.08.2022

Page: 11

### 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.