

## SAFETY DATA SHEET

# Arvox Pro Lime + Sanitary A

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

### Product identifier

#### Trade name

Arvox Pro Lime + Sanitary A

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

#### Relevant identified uses of the substance or mixture

Cleaning product

#### Uses advised against

None known.

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

#### Company and address

**Arva Greentech Deutschland GmbH**

Gartenfelder Straße 29-37

13599 Berlin

Germany

+49 (0) 30 8093341 20

arva-green.tech

#### Contact person

QHSE contact

#### E-mail

sds@arva-green.tech

#### SDS date

1/23/2025

#### SDS Version

1.0

### Emergency telephone number

Contact the local emergency services.

See section 4 "First aid measures".

## SECTION 2: Hazards identification

### Classification of the substance or mixture

Eye Dam. 1; H318, Causes serious eye damage.

### Label elements

#### Hazard pictogram(s)



#### Signal word

Danger

#### Hazard statement(s)

Causes serious eye damage. (H318)

#### Precautionary statement(s)

##### General

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

#### Prevention

Wear eye protection/protective gloves/protective clothing. (P280)

#### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

#### Storage

-

#### Disposal

Dispose of contents/container in accordance with local regulation

(P501)

#### Hazardous substances

Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

#### Additional labelling

Not applicable.

#### Other hazards

### SECTION 3: Composition/information on ingredients

#### Substances

Not applicable. This product is a mixture.

#### Mixtures

| Product/substance                                       | Identifiers                              | % w/w | Classification                                                                                    | Note |
|---------------------------------------------------------|------------------------------------------|-------|---------------------------------------------------------------------------------------------------|------|
| Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts | CAS No.: 90583-11-2<br>EC No.: 292-209-0 | 3-5%  | Acute Tox. 4, H302 (ATE: 1800.00 mg/kg)<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318 (SCL: 20.00 %) |      |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts   | CAS No.: 68891-38-3<br>EC No.: 500-234-8 | 3-5%  | Skin Irrit. 2, H315<br>Eye Dam. 1, H318                                                           | [19] |
| sodium carbonate                                        | CAS No.: 497-19-8<br>EC No.: 207-838-8   | 1-3%  | Eye Irrit. 2, H319                                                                                |      |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

### SECTION 4: First aid measures

#### Description of first aid measures

##### General information

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet.

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

##### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

##### Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

##### Eye contact

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical

assistance immediately and continue flushing during transport.

#### Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

#### Burns

Not applicable.

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

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

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

IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: Firefighting measures

#### Extinguishing media

Not applicable.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

Some metal oxides

#### Advice for firefighters

Fire fighters should wear appropriate personal protective equipment.

### SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

#### Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

#### Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

### SECTION 7: Handling and storage

#### Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage conditions

5 - 30°C

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### Control parameters

No substances are listed with an occupational exposure limit.

### Exposure controls

Apply general control to prevent unnecessary exposure

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

#### Appropriate technical measures

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

#### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

#### Measures to avoid environmental exposure

No specific requirements.

### Individual protection measures, such as personal protective equipment

#### Generally

Use only CE marked protective equipment.

#### Respiratory Equipment

| Type                                                                       | Class | Colour | Standards |
|----------------------------------------------------------------------------|-------|--------|-----------|
| Respiratory protection is not needed in the event of adequate ventilation. |       |        |           |

#### Skin protection

| Recommended                                                                                                      | Type/Category | Standards |
|------------------------------------------------------------------------------------------------------------------|---------------|-----------|
| Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester. | -             | -         |



#### Hand protection

| Material      | Glove thickness (mm) | Breakthrough time (min.) | Standards               |
|---------------|----------------------|--------------------------|-------------------------|
| Cotton/Nitril | -                    | > 240                    | EN374-2, EN374-3, EN388 |



#### Eye protection

| Type | Standards |
|------|-----------|
|------|-----------|

|                                   |       |
|-----------------------------------|-------|
| Safety glasses with side shields. | EN166 |
|-----------------------------------|-------|



## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

#### Form

Liquid

#### Colour

Clear

#### Odour

Characteristic

#### Odour threshold (ppm)

No data available

#### pH

6

#### Density (g/cm<sup>3</sup>)

1.05 (20 °C)

#### Kinematic viscosity

No data available

#### Dynamic viscosity

7 mPa.s (20 °C)

### Phase changes

#### Melting point (°C)

Not applicable - product is a liquid

#### Softening point/range (°C)

Does not apply to liquids.

#### Boiling point (°C)

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#### Vapour pressure

No data available

#### Relative vapour density

No data available

#### Decomposition temperature (°C)

Not applicable

#### Evaporation rate (n-butylacetate = 100)

No data available

### Data on fire and explosion hazards

#### Flash point (°C)

No relevant or available data due to the nature of the product.

#### Flammability (°C)

The material is not combustible.

#### Auto-ignition temperature (°C)

Not applicable - based on structure

#### Explosion limits (% v/v)

Not applicable - based on structure

### Solubility

#### Solubility in water

Completely soluble

#### n-octanol/water coefficient (LogKow)

No data available

#### Solubility in fat (g/L)

No data available

#### Other information

##### Sensitivity to shock

No

##### Evaporation rate (n-butylacetate = 100)

No data available

##### Other physical and chemical parameters

No data available.

##### Oxidizing properties

Not applicable - based on structure

### SECTION 10: Stability and reactivity

#### Reactivity

No data available.

#### Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### Possibility of hazardous reactions

None known.

#### Conditions to avoid

Extremes of temperature

Frost

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Based on available data, the classification criteria are not met.

##### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

##### Serious eye damage/irritation

Causes serious eye damage.

##### Respiratory sensitisation

Based on available data, the classification criteria are not met.

##### Skin sensitisation

Based on available data, the classification criteria are not met.

##### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

##### Carcinogenicity

Based on available data, the classification criteria are not met.

##### Reproductive toxicity

Based on available data, the classification criteria are not met.

##### STOT-single exposure

Based on available data, the classification criteria are not met.

##### STOT-repeated exposure

Based on available data, the classification criteria are not met.

##### Aspiration hazard

Based on available data, the classification criteria are not met.

##### Long term effects

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

## SECTION 12: Ecological information

### Toxicity

No data available.

### Persistence and degradability

Based on available data, the classification criteria are not met.

### Bioaccumulative potential

Based on available data, the classification criteria are not met.

### Mobility in soil

No data available.

### Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### Other adverse effects

None known.

## SECTION 13: Disposal considerations

### Waste treatment methods

Product is not covered by regulations on dangerous waste.

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

|      | 14.1<br>UN / ID | 14.2<br>UN proper shipping name | 14.3<br>Hazard class(es) | 14.4<br>PG* | 14.5<br>Env** | Other<br>information: |
|------|-----------------|---------------------------------|--------------------------|-------------|---------------|-----------------------|
| ADR  | -               | -                               | -                        | -           | -             | -                     |
| IMDG | -               | -                               | -                        | -           | -             | -                     |
| IATA | -               | -                               | -                        | -           | -             | -                     |

\* Packing group

\*\* Environmental hazards

### Additional information

Not dangerous goods according to ADR, IATA and IMDG.

### Special precautions for user

Not applicable.

### Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

## SECTION 15: Regulatory information

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

#### Restrictions for application

No special.

#### Demands for specific education

No specific requirements.

#### Major hazard installation

Not applicable.

#### Additional information

Not applicable.

#### Philippine Inventory of Chemicals and Chemical Substances (PICCS)

None of the components are listed

None of the components are listed

#### Sources

DAO 2015-09: Rules and Procedures for the Implementation of GHS in Preparation of Safety Data Sheet (SDS) and Labelling Requirements of Toxic Chemical Substances.

Republic Act 6969: Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990.

Rule 1090: Hazardous Materials.

#### Chemical safety assessment

No

### SECTION 16: Other information

#### Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

#### The full text of identified uses as mentioned in section 1

None known.

#### Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

#### Additional information



Not applicable.

The safety data sheet is validated by  
Arva Greentech Deutschland GmbH

**Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: PH-en

## SAFETY DATA SHEET

# Arvox Pro Lime + Sanitary B

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

### Product identifier

#### Trade name

Arvox Pro Lime + Sanitary B

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

#### Relevant identified uses of the substance or mixture

Cleaning product

#### Uses advised against

None known.

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

#### Company and address

**Arva Greentech Deutschland GmbH**

Gartenfelder Straße 29-37

13599 Berlin

Germany

+49 (0) 30 8093341 20

arva-green.tech

#### Contact person

QHSE contact

#### E-mail

sds@arva-green.tech

#### SDS date

1/23/2025

#### SDS Version

1.0

### Emergency telephone number

Contact the local emergency services.

See section 4 "First aid measures".

## SECTION 2: Hazards identification

### Classification of the substance or mixture

Skin Corr. 1; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

### Label elements

#### Hazard pictogram(s)



#### Signal word

Danger

#### Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

#### Precautionary statement(s)

##### General

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

#### Prevention

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

#### Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

#### Storage

-

#### Disposal

Dispose of contents/container in accordance with local regulation (P501)

#### Hazardous substances

Methanesulphonic acid

#### Additional labelling

Not applicable.

#### Other hazards

### SECTION 3: Composition/information on ingredients

#### Substances

Not applicable. This product is a mixture.

#### Mixtures

| Product/substance     | Identifiers                           | % w/w | Classification                        | Note |
|-----------------------|---------------------------------------|-------|---------------------------------------|------|
| Methanesulphonic acid | CAS No.: 75-75-2<br>EC No.: 200-898-6 | 5-10% | Skin Corr. 1B, H314                   |      |
| citric acid           | CAS No.: 77-92-9<br>EC No.: 201-069-1 | 5-10% | Eye Irrit. 2, H319<br>STOT SE 3, H335 |      |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

-

### SECTION 4: First aid measures

#### Description of first aid measures

##### General information

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

##### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

##### Skin contact

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

##### Eye contact

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until

irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

#### Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### Burns

Not applicable.

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: Firefighting measures

#### Extinguishing media

Not applicable.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Sulphur oxides

Carbon oxides (CO / CO<sub>2</sub>)

#### Advice for firefighters

Fire fighters should wear appropriate personal protective equipment.

Hazchem Code: 2X

### SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

#### Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

#### Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

### SECTION 7: Handling and storage

#### Precautions for safe handling

Avoid direct contact with the product.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage conditions

Dry, cool and well ventilated

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### Specific end use(s)

This product should only be used for applications quoted in section 1.2.

### SECTION 8: Exposure controls/personal protection

#### Control parameters

formic acid ... %

Short term exposure limit (STEL) (ACGIH TLV) (ppm): 10

Long term exposure limit (OSHA Table Z-1) (mg/m<sup>3</sup>): 9

Long term exposure limit (OSHA Table Z-1) (ppm): 5

Long term exposure limit (ACGIH TLV) (ppm): 5

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

#### Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

#### Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

#### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

#### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

#### Individual protection measures, such as personal protective equipment

##### Generally

Wash contaminated clothing before reuse.

Use only CE marked protective equipment.

#### Respiratory Equipment

| Type | Class | Colour | Standards |
|------|-------|--------|-----------|
|------|-------|--------|-----------|

#### Skin protection

| Recommended | Type/Category | Standards |
|-------------|---------------|-----------|
|-------------|---------------|-----------|

Wear appropriate protection clothing, e.g. coveralls in polypropylene or



| Recommended | Type/Category | Standards |
|-------------|---------------|-----------|
|-------------|---------------|-----------|

working clothes in cotton or polyester.

#### Hand protection

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards               |
|----------|----------------------|--------------------------|-------------------------|
| 4H       | 0,068 - 0,084        | > 480                    | EN374-2, EN374-3, EN388 |



#### Eye protection

| Type | Standards |
|------|-----------|
|------|-----------|

Safety glasses with side shields.



## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

#### Form

Liquid

#### Colour

Clear

#### Odour

Characteristic, Sour

#### Odour threshold (ppm)

No relevant or available data due to the nature of the product.

#### pH

-

#### pH in solution

1.5 (%)

#### Density (g/cm<sup>3</sup>)

1.07 (20 °C)

#### Kinematic viscosity

No relevant or available data due to the nature of the product.

#### Dynamic viscosity

8 mPa.s (20 °C)

### Phase changes

#### Melting point (°C)

Not applicable - product is a liquid

#### Softening point/range (°C)

Does not apply to liquids.

#### Boiling point (°C)

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#### Vapour pressure

No data available

#### Relative vapour density

No data available

#### Decomposition temperature (°C)

Not applicable

#### Evaporation rate (n-butylacetate = 100)

No data available

### Data on fire and explosion hazards

#### Flash point (°C)

Not applicable - estimated flash point > 200 °C

**Flammability (°C)**

Not applicable - estimated flash point > 200 °C

**Auto-ignition temperature (°C)**

Not applicable - based on structure

**Explosion limits (% v/v)**

Not applicable

**Solubility**

**Solubility in water**

Completely soluble

**n-octanol/water coefficient (LogKow)**

No data available

**Solubility in fat (g/L)**

No data available

**Other information**

**Evaporation rate (n-butylacetate = 100)**

No data available

**Other physical and chemical parameters**

No data available.

**Oxidizing properties**

Not applicable

## SECTION 10: Stability and reactivity

**Reactivity**

No data available.

**Chemical stability**

The product is stable under the conditions, noted in section 7 "Handling and storage".

**Possibility of hazardous reactions**

None known.

**Conditions to avoid**

Extremes of temperature

**Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**Hazardous decomposition products**

Thermal decomposition may produce corrosive vapours.

## SECTION 11: Toxicological information

**Information on toxicological effects**

**Acute toxicity**

Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory sensitisation**

Based on available data, the classification criteria are not met.

**Skin sensitisation**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

### SECTION 12: Ecological information

#### Toxicity

No data available.

#### Persistence and degradability

Based on available data, the classification criteria are not met.

#### Bioaccumulative potential

Based on available data, the classification criteria are not met.

#### Mobility in soil

No data available.

#### Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

#### Other adverse effects

None known.

### SECTION 13: Disposal considerations

#### Waste treatment methods

Dispose of contents/container to an approved waste disposal plant.

#### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

### SECTION 14: Transport information

|      | 14.1<br>UN / ID | 14.2<br>UN proper shipping name                                                            | 14.3<br>Hazard class(es)                                                                                                                                | 14.4<br>PG* | 14.5<br>Env** | Other<br>information:                                                                                                     |
|------|-----------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|---------------------------------------------------------------------------------------------------------------------------|
| ADR  | UN3265          | CORROSIVE LIQUID, ACIDIC, ORGANIC,<br>N.O.S. (Methanesulphonic acid, formic<br>acid ... %) | Transport hazard class: 8<br>Label: 8<br>Classification code: C3<br> | III         | No            | Limited<br>quantities: 5<br>L<br>Tunnel<br>restriction<br>code: (E)<br>See below<br>for<br>additional<br>information<br>. |
| IMDG | UN3265          | CORROSIVE LIQUID, ACIDIC, ORGANIC,<br>N.O.S. (Methanesulphonic acid, formic<br>acid ... %) | Transport hazard class: 8<br>Label: 8<br>Classification code: C3                                                                                        | III         | No            | Limited<br>quantities: 5<br>L<br>EmS: F-A S-                                                                              |



| 14.1<br>UN / ID | 14.2<br>UN proper shipping name                                                                   | 14.3<br>Hazard class(es)                                                                                                                              | 14.4<br>PG* | 14.5<br>Env** | Other<br>information:                                   |
|-----------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|---------------------------------------------------------|
|                 |                                                                                                   |                                                                      |             |               | B<br>See below<br>for<br>additional<br>information<br>. |
| IATA            | UN3265 CORROSIVE LIQUID, ACIDIC, ORGANIC,<br>N.O.S. (Methanesulphonic acid, formic<br>acid ... %) | Transport hazard class: 8<br>Label: 8<br>Classification code: C3<br> | III         | No            | See below<br>for<br>additional<br>information<br>.      |

\* Packing group

\*\* Environmental hazards

#### Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

Hazchem Code: 2X

#### Special precautions for user

Not applicable.

#### Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

## SECTION 15: Regulatory information

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

#### Restrictions for application

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

#### Demands for specific education

No specific requirements.

#### Major hazard installation

Not applicable.

#### Additional information

Tactile warning.

If this product is sold in retail, it must be delivered with child-resistant fastening.

#### Philippine Inventory of Chemicals and Chemical Substances (PICCS)

None of the components are listed

None of the components are listed

#### Sources

DAO 2015-09: Rules and Procedures for the Implementation of GHS in Preparation of Safety Data Sheet (SDS) and Labelling Requirements of Toxic Chemical Substances.

Republic Act 6969: Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990.

Rule 1090: Hazardous Materials.

## Chemical safety assessment

No

### SECTION 16: Other information

#### Full text of H-phrases as mentioned in section 3

H314, Causes severe skin burns and eye damage.

H319, Causes serious eye irritation.

H335, May cause respiratory irritation.

#### The full text of identified uses as mentioned in section 1

None known.

#### Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

Not applicable.

#### The safety data sheet is validated by

Arva Greentech Deutschland GmbH

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: PH-en