

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Additiv 25

Product no.

-

REACH registration number

Not applicable

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

Relevant identified uses of the substance or mixture

Chemicals for industrial purposes

Washing and Cleaning Products (including solvent based products) (PC35)

Use in closed, continuous process with occasional controlled exposure (PROC 2)

Professional uses: Public domain (administration, education, entertainment, services, craftsmen) (SU 22)

Industrial use of processing aids in processes and products, not becoming part of articles (ERC4)

Uses advised against

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The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

NCA-Verodan A/S

Industriparken 5

DK-9560 Hadsund

+45 70 27 16 30

www.ncaa.dk

Contact person**E-mail**

mail@ncaa.dk

SDS date

2018-03-22

SDS Version

1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Irrit. 2; H315

Eye Dam. 1; H318

See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Causes skin irritation. (H315)

Causes serious eye damage. (H318)

Safety statement(s)

General

-

Prevention

Wash hands thoroughly after handling. (P264).

Wear protective gloves/eye protection. (P280).

Response

Immediately call a POISON CENTER/doctor. (P310).

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

-

Identity of the substances primarily responsible for the major health hazards

fatty alcohol alkoxyate 2, Phosphoric acid

2.3. Other hazards

Not applicable

Additional labelling

Not applicable

Additional warnings

Not applicable

VOC

Not applicable

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME: fatty alcohol alkoxyate 2
IDENTIFICATION NOS.: -
CONTENT: 10 - <15%
CLP CLASSIFICATION: Eye Dam. 1, Aquatic Chronic 3
H318, H412

NAME: Amin alkoxyate
IDENTIFICATION NOS.: -
CONTENT: 10 - <15%
CLP CLASSIFICATION: Skin Irrit. 2
H315

NAME: Citric acid, monohydrate
IDENTIFICATION NOS.: CAS-no: 5949-29-1 EC-no: 201-069-1 REACH-no: 01-2119457
2119457026-42-0000
2119457026-42-0000
CONTENT: 5 - <10%
CLP CLASSIFICATION: Eye Irrit. 2
H319

NAME: Phosphoric acid
IDENTIFICATION NOS.: CAS-no: 7664-38-2 EC-no: 231-633-2 REACH-no: 01-2119485924-24-0000 Index-no: 015-011-00-6
CONTENT: 5 - <10%
CLP CLASSIFICATION: Met. Corr. 1, Skin Corr. 1B
H290, H314
NOTE: L

According to EC-Regulation 2015/830

NAME:	2-phosphonobutane-1,2,4-tricarboxylic acid
IDENTIFICATION NOS.:	CAS-no: 37971-36-1 EC-no: 253-733-5
CONTENT:	2.5 - <5%
CLP CLASSIFICATION:	Met. Corr. 1, Eye Irrit. 2 H290, H319
NAME:	Alcohol Alcoxylate
IDENTIFICATION NOS.:	CAS-no: 9038-95-3 REACH-no: 02-2119552554-37-0000
CONTENT:	1 - <2.5%
CLP CLASSIFICATION:	Acute Tox. 4, Eye Irrit. 2 H302, H319

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

L = European occupational exposure limit.

Other information

ATEmix(oral) > 2000

Eye Cat. 1 Sum = Sum(Ci/S(G)CLi) = 3,464 - 5,196

Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 8,66 - 12,99

N chronic (CAT 4) Sum = Sum(Ci/(M(chronic)ⁱ*25)*0.1*10^{CAT4}) = 0,384 - 0,576

Detergent:

> 30%: AQUA

5 - 15%: NON-IONIC SURFACTANTS, CITRIC ACID, PHOSPHATES, [INCI NAME NOT FOUND]

< 5%: PHOSPHONATES, [INCI NAME NOT FOUND]

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

The doctor can contact The National Poisons Information Service (dial 111, 24 h service).

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

Bring the person into fresh air and stay with him/her.

Skin contact

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

Eye contact

Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. 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 victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Not applicable

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

4.3. 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.

SECTION 5: Firefighting measures

According to EC-Regulation 2015/830

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. 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.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances. Avoid inhalation of vapours from spilled material.

6.2. Environmental precautions

No specific requirements.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature

No data available.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

No substances are listed in The Control of Substances Hazardous to Health Regulations with an occupational exposure limit.

DNEL / PNEC

DNEL (2-phosphonobutane-1,2,4-tricarboxylic acid): 80 mg/kg/bw/day
Exposure: Dermal
Duration of Exposure: Short term – Systemic effects - Workers

DNEL (2-phosphonobutane-1,2,4-tricarboxylic acid): 15 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-phosphonobutane-1,2,4-tricarboxylic acid): 4,2 mg/kg/bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

According to EC-Regulation 2015/830

DNEL (2-phosphonobutane-1,2,4-tricarboxylic acid): 158 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - Workers

PNEC (2-phosphonobutane-1,2,4-tricarboxylic acid): 1,47 mg/kg
Exposure: Freshwater sediment

PNEC (2-phosphonobutane-1,2,4-tricarboxylic acid): 0,491 mg/kg
Exposure: Soil

PNEC (2-phosphonobutane-1,2,4-tricarboxylic acid): 10,42 mg/l
Exposure: Intermittent release
Remarks: water

PNEC (2-phosphonobutane-1,2,4-tricarboxylic acid): 0,33 mg/l
Exposure: Marine water

PNEC (2-phosphonobutane-1,2,4-tricarboxylic acid): 3,33 mg/l
Exposure: Freshwater

PNEC (2-phosphonobutane-1,2,4-tricarboxylic acid): 50,4 mg/l
Exposure: Activated Sludge Plant

PNEC (Alcohol Alcoxylate): >1000 mg/l
Exposure: Activated Sludge Plant
Remarks: OECD 209

PNEC (Amin alkoxyate): > 5000 mg/l
Exposure: Activated Sludge Plant
Remarks: EC10

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

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

Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

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. Always wash hands, forearms and face.

Measures to avoid environmental exposure

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

Individual protection measures, such as personal protective equipment



Generally

Use only CE marked protective equipment.

Respiratory Equipment

No specific requirements.

Skin protection

Dedicated work clothing should be worn.

Hand protection

Recommended: Neoprene. Breakthrough time: > 120 minutes (Class 4)

Eye protection

According to EC-Regulation 2015/830

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Clear
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	2
Viscosity (40°C)	No data available.
Density (g/cm ³)	1,2

Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

Data on fire and explosion hazards

Flash point (°C)	No data available.
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.

Solubility

Solubility in water	Soluble
n-octanol/water coefficient	No data available.

9.2. Other information

Solubility in fat (g/L)	No data available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Nothing special

10.4. Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance: Alcohol Alcoxylate
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 500-2000 mg/l

Substance: 2-phosphonobutane-1,2,4-tricarboxylic acid
Species: Rat
Test: LD50

According to EC-Regulation 2015/830

Route of exposure: Dermal
Result: >4000 mg/kg bw

Substance: 2-phosphonobutane-1,2,4-tricarboxylic acid
Species: Rat
Test: LD50
Route of exposure: Oral
Result: > 5 ml/kg bw

Substance: 2-phosphonobutane-1,2,4-tricarboxylic acid
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: >1979 mg/m³ air

Substance: Phosphoric acid
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 2600 mg /kg

Substance: Phosphoric acid
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: 2740 mg/kg

Substance: Phosphoric acid
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: 850 mg/l

Substance: Citric acid, monohydrate
Species: Rat
Test: LD50
Route of exposure: Dermal
Result: >2000 mg/kg

Substance: Amin alkoxyolate
Species: Rat
Test: LD50
Route of exposure: Oral
Result: > 5000 mg/kg

Substance: fatty alcohol alkoxyolate 2
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 2000-5000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Data on substance: Phosphoric acid
Organism: Rabbit
Result: Ætsende

Data on substance: Alcohol Alkoxyolate
Test: OECD Guideline 404
Organism: Rabbit
Result: No irritation

Serious eye damage/irritation

Causes serious eye damage.

Data on substance: Alcohol Alkoxyolate
Test: OECD Guideline 404
Organism: Rabbit
Result: Irritation

According to EC-Regulation 2015/830

Data on substance: Phosphoric acid

Organism: Rabbit

Result: Ætsende

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

Data on substance: Alcohol Alcoxylate

No adverse effect observed.

Data on substance: 2-phosphonobutane-1,2,4-tricarboxylic acid

No adverse effect observed.

Data on substance: Phosphoric acid

No adverse effect observed.

Data on substance: Citric acid, monohydrate

No adverse effect observed.

Data on substance: Amin alcoxylate

No adverse effect observed.

Carcinogenicity

Data on substance: Alcohol Alcoxylate

No adverse effect observed.

Data on substance: 2-phosphonobutane-1,2,4-tricarboxylic acid

No adverse effect observed.

Data on substance: Phosphoric acid

No adverse effect observed.

Data on substance: Citric acid, monohydrate

No adverse effect observed.

Data on substance: Amin alcoxylate

No adverse effect observed.

Reproductive toxicity

Data on substance: Alcohol Alcoxylate

No adverse effect observed.

Data on substance: 2-phosphonobutane-1,2,4-tricarboxylic acid

No adverse effect observed.

Data on substance: Phosphoric acid

No adverse effect observed.

Data on substance: Citric acid, monohydrate

No adverse effect observed.

Data on substance: Amin alcoxylate

No adverse effect observed.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

Data on substance: Alcohol Alcoxylate

No adverse effect observed. Data on substance: 2-phosphonobutane-1,2,4-tricarboxylic acid

No adverse effect observed. Data on substance: Phosphoric acid

Long term effects

According to EC-Regulation 2015/830

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

SECTION 12: Ecological information

12.1. Toxicity

Substance: Alcohol Alcoxylate
Species: Fish
Test: LC50
Duration: 96 h
Result: 10-100 mg/l

Substance: Alcohol Alcoxylate
Species: Daphnia
Test: EC50
Duration: 48 h
Result: 10-100 mg/l

Substance: Alcohol Alcoxylate
Species: Algae
Test: EC50
Duration: 72 h
Result: 10-100 mg/l

Substance: Alcohol Alcoxylate
Species: Algae
Test: NOEC
Duration: 72 h
Result: 0,1-1 mg/l

Substance: 2-phosphonobutane-1,2,4-tricarboxylic acid
Species: Fish
Test: LC50
Duration: 96 h
Result: >1042 mg/l

Substance: 2-phosphonobutane-1,2,4-tricarboxylic acid
Species: Algae
Test: EC50
Duration: 72 h
Result: >1081 mg/l

Substance: 2-phosphonobutane-1,2,4-tricarboxylic acid
Species: Daphnia
Test: EC50
Duration: 24 h
Result: >1071 mg/l

Substance: Phosphoric acid
Species: Crustacean
Test: EC50
Duration: 48 h
Result: > 100 mg/l

Substance: Phosphoric acid
Species: Algae
Test: EC50
Duration: 72 h
Result: > 100 mg/l

Substance: Citric acid, monohydrate
Species: Fish
Test: LC50
Duration: 48 h
Result: 440 mg/l

Substance: Citric acid, monohydrate
Species: Algae
Test: NOEC
Duration: 8 d

According to EC-Regulation 2015/830

Result: 425 mg/l

Substance: Citric acid, monohydrate
 Species: Daphnia
 Test: LC50
 Duration: 24 h
 Result: 1535 mgL

Substance: fatty alcohol alkoxyolate 2
 Species: Fish
 Test: LC50
 Duration: 96 h
 Result: 1-10 mg/l

Substance: fatty alcohol alkoxyolate 2
 Species: Crustacean
 Test: EC50
 Duration: 48 h
 Result: 1-10 mg/l

Substance: fatty alcohol alkoxyolate 2
 Species: Algae
 Test: EC50
 Duration: 96 h
 Result: 1-10 mg/l

Substance: fatty alcohol alkoxyolate 2
 Species: Algae
 Test: NOEC
 Duration: 0,1-1 mg/l
 Result: 0,1-1 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Alcohol Alkoxyolate	Yes	CO2 Evolution Test	>60%
Phosphoric acid	Yes	No data available	No data available
Citric acid, monohydrate	Yes	No data available	No data available
Amin alkoxyolate	Yes	No data available	No data available
fatty alcohol alkoxyolate 2	Yes	CO2 Evolution Test	>60%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
Alcohol Alkoxyolate	No	No data available	No data available
2-phosphonobutane-1,2,4-tricar...	No	-1,36	No data available
Phosphoric acid	No	No data available	No data available
Citric acid, monohydrate	No	No data available	No data available
Amin alkoxyolate	No	No data available	No data available
fatty alcohol alkoxyolate 2	No	No data available	No data available

12.4. Mobility in soil

2-phosphonobutane-1,2,4-tricar...: Log Koc= -0,998584, Calculated from LogPow ().

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

Waste

EWC code
 20 01 14* acids

Specific labelling

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According to EC-Regulation 2015/830

Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG.

ADR/RID

14.1. UN number	-
14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	-
14.4. Packing group	-
Notes	-
Tunnel restriction code	-

IMDG

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-
EmS	-
MP**	-
Hazardous constituent	-

IATA/ICAO

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

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

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

15.1. 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 cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Demands for specific education

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Additional information

Not applicable The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Seveso

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Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

According to EC-Regulation 2015/830

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

EC regulation 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H290 - May be corrosive to metals.

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

PC35 = Washing and Cleaning Products (including solvent based products)

PROC 2 = Use in closed, continuous process with occasional controlled exposure

SU 22 = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

ERC4 = Industrial use of processing aids in processes and products, not becoming part of articles

Additional label elements

Not applicable

Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

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.

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.

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

The safety data sheet is validated by

AJA

Date of last essential change

(First cipher in SDS version)

-

Date of last minor change

(Last cipher in SDS version)

-