

DECKBLATT ZUM SICHERHEITSDATENBLATT

gemäss Anhang 2 Ziffer 3.2 ChemV / Deckblatt erstellt am 19.03.2025

Produkt: Phosphorsäure 75%

Nationale Anforderungen in Abschnitt 1

1.2 Relevante identifizierte Verwendung des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Relevante identifizierte Verwendungen:

Lebensmittelzusatz
Grundchemikalie

Verwendungen, von denen abgeraten wird:

Keine weiteren relevanten Informationen bekannt.

1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Lieferant

Brau- und Rauchshop GmbH
Hauptstrasse 1
CH-5026 Densbüren
Tel. +41 (0)56 666 35 18
info@brauundrauchshop.ch

Hersteller/Lieferant des Sicherheitsdatenblattes

BRENNTAG Spa
Milanfiori Strada 6, Pal. A/13
IT-20057 Assago (MI)
Italy
Tel. +39 02 48333 0
infoSDS@brenntag.it

1.4 Notrufnummern

Tox Info Suisse, **24h-Notfallnummer: 145**
Telefon +41 (0)44 251 51 51, www.toxi.ch

Nationale Anforderungen in Abschnitt 7

7 Handhabung und Lagerung

7.1 Schutzmassnahmen zur sicheren Handhabung

Schutzmassnahmen

Hinweise zum sicheren Umgang

Behälter mit Vorsicht öffnen und handhaben.
Beim Verdünnen stets Wasser vorlegen und Produkt hineinrühren.
Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.
Berührung mit Haut, Augen und Kleidung vermeiden.
Geeignete Schutzausrüstung/Gesichtsschutz tragen.
Ausreichende Belüftung sicherstellen.
Explosionsgefahr besteht bei Kontakt mit einigen Metallen und Wasser durch Bildung von Wasserstoff.
Aerosolbildung vermeiden.
Dämpfe nicht einatmen.

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Substanzkontakt vermeiden.

Von Hitze/Funken/offenen Flammen/heissen Oberflächen fernhalten.

Hinweise zur allgemeinen Industriehygiene

Die beim Umgang mit Chemikalien üblichen Vorsichtsmassnahmen sind zu beachten.

Berührung mit den Augen und der Haut vermeiden. Kontaminierte Kleidung sofort ausziehen und vor erneutem Gebrauch waschen. Im Arbeitsbereich nicht essen, trinken oder rauchen. Vor Pausen und bei Arbeitsende Hände waschen.

Vorbeugender Hautschutz empfohlen. Augenspülflasche oder Augendusche am Arbeitsplatz bereitstellen, bei Handhabung grösserer Mengen Notdusche im Arbeitsraum vorsehen.

7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

Anforderungen an Lagerräume und Behälter

An einem trockenen, gut belüfteten Ort aufbewahren.

Behälter dicht geschlossen halten.

Vor direktes Sonnenlicht schützen.

Von Nahrungsmitteln, Getränken und Futtermittel fernhalten.

Ungeeignete Werkstoffe: viele Metalle und Metalllegierungen

Zusammenlagerungshinweise

Lagerklasse (Schweiz)

SC 8 (Säure)

Nicht zusammen lagern mit

Alkalien (Laugen)

Weitere Angaben zu Lagerbedingungen

Produkt ist hygroskopisch.

Empfohlene Lagertemperatur: 15-25 °C

Ungeeignetes Behältermaterial: Aluminium, Zink.

7.3 Spezifische Endanwendungen

Keine weiteren relevanten Informationen verfügbar

Nationale Anforderungen in Abschnitt 8

8.0 Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

Gesetzlich ist der Arbeitgeber verpflichtet eine Risikobeurteilung durchzuführen und geeignete, dem Risiko entsprechende Massnahmen zu definieren. Wird der in Abschnitt 8.1 behördlich, definierte Grenzwert überschritten sind alle im Abschnitt 8.2 genannten Schutzmassnahmen anzuwenden und regelmässige Messungen zur Einhaltung der behördlichen Grenzwerte durchzuführen. Für jede Situation in der ein Risiko nicht ausgeschlossen werden kann müssen die beschriebenen Massnahmen angewendet werden. Ergibt die Beurteilung ein geringes Risiko für die Gefährdung der Arbeitnehmer können Schutzmassnahmen entsprechend dem Risiko gelockert werden.

8.1 Zu Überwachende Parameter

Grenzwerte für die berufsbedingte Exposition (Arbeitsplatzgrenzwerte)

PHOSPHORIC ACID, CAS No.: 7664-38-2

STEL: 2 mg/m³ 15 Minuten.

TWA: 1 mg/m³ 8 Stunden

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8.2 Begrenzung und Überwachung der Exposition

Persönliche Schutzausrüstung

Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.
Kontakt mit Haut, Augen und Kleidung vermeiden.
Beschmutzte, getränkte Kleidung sofort ausziehen.
Vor den Pausen und bei Arbeitsende Hände waschen.
Getrennte Aufbewahrung der Schutzkleidung.
Berührung mit den Augen und der Haut vermeiden.
Bei der Arbeit nicht essen, trinken, rauchen.

Augen-/Gesichtschutz

Dichtschliessende Schutzbrille (EN 166)

Handschutz

Schutzhandschuhe gegen Chemikalien (EN 374)
Materialauswahl (guter Schutz) NBR (Nitrilkautschuk)

Körperschutz

Säurebeständige Schutzkleidung

Atemschutz

Nicht erforderlich.

Nationale Anforderungen in Abschnitt 13

13. Hinweise zur Entsorgung

13.1 Verfahren der Abfallbehandlung

Darf nicht zusammen mit Hausmüll entsorgt werden.
Nicht in die Kanalisation gelangen lassen.
Inhalt/Behälter in Übereinstimmung mit den lokalen/regionalen/nationalen/internationalen Vorschriften der Entsorgung zuführen.

Für die Entsorgung über Abwasser relevante Angaben

Nicht in die Kanalisation gelangen lassen.

Abfallbehandlung von Behälter/Verpackungen

Kontaminierte Verpackungen sind wie der Stoff zu behandeln.

Empfehlendes Reinigungsmittel

Wasser, gegebenenfalls mit Zusatz von Reinigungsmittel.

Nationale Anforderungen in Abschnitt 15

15. Rechtsvorschriften

15.1: Vorschriften zu Sicherheit, Gesundheits- und Umweltschutzspezifische

Rechtsvorschriften für den Stoff oder das Gemisch

822.115, Jugendarbeitsschutzverordnung - ArGV 5 und 822.115.2, Verordnung des WBF über gefährliche Arbeiten für Jugendliche sind nichtzutreffend.
ArGV 1 und 822.111.52, Verordnung des WBF über gefährliche und beschwerliche Arbeiten bei Schwangerschaft und Mutterschaft sind nichtzutreffend.

Zulassungen und/oder Verwendungsbeschränkungen der Europäischen Union (EU)

Verwendungsbeschränkungen, gemäss REACH, Anhang XVII

Behutsam verwenden.

Nationale Vorschriften (Schweiz)

Das Produkt ist gemäss CLP-Verordnung eingestuft und gekennzeichnet.

Wassergefährdungsklasse

WGK 1 (schwach wassergefährdend)

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Sonstige relevanten Daten:

VOCV (CH) 0,00 %

15.2 Stoffsicherheitsbeurteilung

Keine Daten Vorhanden.

Gemäss Anhang 2 Ziffer 3.2 ChemV gilt: Wo nach Anhang II der EU-REACH-Verordnung in den Abschnitten 1, 7, 8, 13 und 15 des Sicherheitsdatenblatts auf nationales Recht verwiesen werden muss, müssen die einschlägigen Bestimmungen des Schweizer Rechts angegeben werden.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH), (EU)
No.2020/878



Name : ACIDO FOSFORICO ALIM.75%'E338'
Code: ACI018000000
Revision date : 27/03/2023
Print date : 27/03/2023

Version : 1.0.0

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

1.1 Product identifier

ACIDO FOSFORICO ALIM.75%'E338' (ACI018000000; ACI018000002)
PHOSPHORIC ACID ; CAS No. : 7664-38-2 ; EC No. : 231-633-2 ; INDEX No. : 015-011-00-6 ; REACH No. : 01-2119485924-24
UFI (ACI018000000) : UK5A-V0XS-S001-PRY4
UFI (ACI018000002) : KH5A-D08D-F00J-1ED2
UFI code notified in: Croatia, Denmark, Estonia, Germany, Ireland, Italy, Latvia, Lithuania, Malta, Netherlands, Norway, Portugal, Spain, Sweden

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

Industrial use
Professional use
Consumer use

Uses advised against

This product is not recommended for any industrial, professional or consumer use other than identified in table on the front page of the annex.

1.3 Details of the supplier of the safety data sheet

Supplier

Brenntag Spa

Street : Milanofiori Strada 6, Pal. A/13

Postal code/city : 20057 Assago (MI)

Telephone : +39 02 48333 0

Telefax : +39 02 48333 201

Information contact : infoSDS@brenntag.it

1.4 Emergency telephone number

24 h / 7 d

Centro Antiveleni di Milano 02 66101029 (CAV Azienda ospedaliera Niguarda Ca' Granda -Milano)
Centro Antiveleni di Pavia 0382 24444 (CAV Centro nazionale d'informazione tossicologica, IRCCS Fondazione Maugeri - Pavia)
Centro Antiveleni di Bergamo 800 883300 (CAV Azienda ospedaliera "Papa Giovanni XXIII"- Bergamo)
Centro Antiveleni di Verona 800 011858 (CAV , Azienda ospedaliera universitaria integrata (AOUI) - Verona)
Centro Antiveleni di Firenze 055 7947819 (CAV Azienda ospedaliera universitaria Careggi - Firenze)
Centro Antiveleni di Roma 06 3054343 (CAV Policlinico "Agostino Gemelli", Servizio di tossicologia clinica - Roma)
Centro Antiveleni di Roma 06 49978000 (CAV Policlinico "Umberto I", PRGM tossicologia d'urgenza - Roma)
Centro Antiveleni di Roma 06 68593726 (CAV , Ospedale pediatrico Bambino Gesù, DEA - Roma)
Centro Antiveleni di Napoli 081 5453333 (CAV Azienda ospedaliera "Antonio Cardarelli" - Napoli)
Centro Antiveleni di Foggia 800 183459 (CAV , Azienda ospedaliera universitaria riuniti - Foggia)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.
Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.
Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.
Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

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Corrosion (GHS05) · Exclamation mark (GHS07)

Signal word

Danger

Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

2.3 Other hazards

This product contains no substances assessed to be PBT or vPvB at levels of 0.1% or higher.

Endocrine disrupting properties

Environment:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Human Health:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : PHOSPHORIC ACID

INDEX No. : 015-011-00-6

EC No. : 231-633-2

REACH No. : 01-2119485924-24

CAS No. : 7664-38-2

Purity : > 70 - ≤ 75 % [mass]

Specific Conc. Limits, M-factors and ATE:

Eye Irrit. 2; H319: 10 % ≤ C < 25 %

Skin Corr. 1B; H314: C ≥ 25 %

Skin Irrit. 2; H315: 10 % ≤ C < 25 %

SECTION 4: First aid measures

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4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention.

Following inhalation

Remove from the danger zone, move to a ventilated place; if symptoms of malaise appear seek medical assistance.

In case of skin contact

Immediately remove contaminated clothing. Wash immediately with plenty of running water all skin portions that have been contaminated, even if only suspected. Consult a physician immediately.

After eye contact

Wash immediately with plenty of running water for at least 10 - 15 min, while keeping the eyelids wide open. GET MEDICAL ATTENTION IMMEDIATELY.

After ingestion

Absolutely don't induce vomit, call a physician and show the material data sheet. Never give anything by mouth to an unconscious person. Consult a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes causes pain, tearing, redness.

Ingestion: May cause burns to mouth, throat and stomach.

Inhalation: cough and respiratory tract irritation.

Skin contact: pain or irritation, redness and blisters.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Phosphorus oxides.

5.3 Advice for firefighters

In case of fire do not breathe fumes. Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protection gloves, clothes, glasses, boots and respiratory apparatus. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Collect the spread product, and then wash with water area and materials. Recove the water used and send to an authorized plant

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for the disposal.

6.4 Reference to other sections

Reference to other sections Personal protection equipment: see section 8 Disposal considerations: see section 13

SECTION 7: Handling and storage



For transportation, storage and handling use only proper materials.

7.1 Precautions for safe handling

Use with good manufacturing practice and with correct protection devices Don't eat, drink or smoke on the production place. Use precautions in the product use. Avoid the contact and vapours and/or dust inhalation. See the MSDS paragraph 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a cool, dry place. Avoid exposure to direct sunlight. Make sure that ventilation is adequate.

Hints on joint storage

Keep away from materials which can lead to reaction. See par. 10. Store the foodstuffs separately.

Storage class : 8B

Storage class (TRGS 510) : 8B

7.3 Specific end use(s)

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit) , suitable respiratory protection must be worn.

Occupational exposure limit values

PHOSPHORIC ACID ; CAS No. : 7664-38-2

Limit value type (country of origin) : STEL (EC)

Limit value : 2 mg/m³

Version : 20/06/2019

Limit value type (country of origin) : TWA (EC)

Limit value : 1 mg/m³

Version : 20/06/2019

DNEL-/PNEC-values

DNEL/DMEL

PHOSPHORIC ACID ; CAS No. : 7664-38-2

Limit value type : DNEL Consumer (local)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 0,36 mg/m³

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 4,57 mg/m³

Limit value type : DNEL Consumer (systemic)

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Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	0,1 mg/kg bw/day
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	1 mg/m ³
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	2 mg/m ³
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	10,7 mg/m ³

8.2 Exposure controls

Personal protection equipment



Eye/face protection

Suitable eye protection

Safety glasses with side shields (EN 166). Prework eyes rinse apparatus.

Skin protection

Hand protection

Protective gloves in nitrile rubber according to EN 374. Thickness of the gloves: 0,11 mm

Body protection

Personnel should wear protective clothing and all parts of the body should be washed after contact. Care should be taken in the selection of protective clothing to ensure that inflammation and irritation of the skin at neck and wrists through contact with the powder is avoided.

Respiratory protection

Suitable respiratory protection apparatus

Use protective mask with filter ABEK (EN 14387)

General information

Do not eat or drink during work - no smoking.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colorless to yellow
Odour	strong, pungent
Melting point/freezing point :	(1013 hPa) -20 °C
Vapour density	((air = 1)) 3,4
Initial boiling point and boiling range :	(1013 hPa) 135 °C
Decomposition temperature :	No data available
Self flammability	Not selfigniting
Flash point :	not applicable
Flammability (solid, gas)	Not flammable

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Lower explosion limit :	No data available
Upper explosion limit :	No data available
Explosive properties	Product is not explosive
Vapour pressure (20 °C)	2 hPa
Density : (20 °C)	1,57 - 1,58 g/cm ³
Bulk density (20 °C)	No data available
Water solubility : (20 °C)	Freely soluble
pH :	< 1
Log Pow (20 °C)	not applicable
Viscosity : (20 °C)	2 - 32 mPa*s
Odour threshold	Data not available
Evaporation rate	Not applicable
Oxidizing properties	Not oxidising
Particle characteristics:	not applicable

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

May give violent reaction. In contact with water may be an exothermic reaction. Contact with reactive metals (mild steel, aluminum, etc.) can develop hydrogen (explosive). Reacts with reducing agents.

10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

10.3 Possibility of hazardous reactions

When mixing with water don't let the mixture warm up too high. Always add the acid into water, slowly and with simultaneous stirring.

10.4 Conditions to avoid

Do not expose this product to high temperatures.

10.5 Incompatible materials

Ammonia Reactive metals. Strong bases.

10.6 Hazardous decomposition products

toxic phosphorus compounds

SECTION 11: Toxicological information

Corrosive product: eyes and skin extremely irritant: can cause serious damages

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed.

Acute oral toxicity

Parameter :	LD50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Exposure route :	Oral
Species :	Rat (female)
Effective dose :	> 300 - 2000 mg/kg bw/day
Method :	OECD 423

Acute dermal toxicity

Parameter :	LD50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	= 2740 mg/kg bw/day

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Corrosion

Strong caustic effect on skin and mucous membranes.
On the eye: strong caustic effect.

Respiratory or skin sensitisation

No known sensitizing effect.

Repeated dose toxicity (subacute, subchronic, chronic)

No specific target organ toxicity observed.

Subacute oral toxicity

Parameter : NOAEL(C) (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Exposure route : Oral
Species : Rat
Effective dose : 250 mg/kg

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Not known to be mutagenic, carcinogenic or toxic for reproduction.

Reproductive toxicity

Adverse effects on developmental toxicity

Parameter : NOAEL(C) (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Exposure route : Rat
Effective dose : >= 500 mg/kg bw/day

Aspiration hazard

Not applicable.

11.2 Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

Use with good manufacturing practice. Avoid the release in the environment

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Species : lepomis macrochirus
Effective dose : 3 - 3,25 pH
Exposure time : 96 h

Acute (short-term) toxicity to crustacea

Parameter : EC50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Species : Daphnia magna
Effective dose : > 100 mg/l
Exposure time : 48 h

Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : EC50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Species : Desmodesmus subspicatus
Effective dose : > 100 mg/l
Exposure time : 72 h

12.2 Persistence and degradability

Biodegradation

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Not applicable to inorganic substances

12.3 Bioaccumulative potential

Not applicable to inorganic substances

12.4 Mobility in soil

This substance is highly soluble and dissociates in water.

12.5 Results of PBT and vPvB assessment

This product is none, or does not contain a substance called a PBT or vPvB.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Give to an incinerator or in an approved landfill in accordance with local regulations. contaminated packaging: Collect all residues and contaminated packaging. After an appropriate cleaning, packaging can be reused. The packages to be disposed of are to be considered as the material itself.

SECTION 14: Transport information

14.1 UN number

UN 1805

14.2 UN proper shipping name

Land transport (ADR/RID)
PHOSPHORIC ACID, SOLUTION

Sea transport (IMDG)
PHOSPHORIC ACID, SOLUTION

Air transport (ICAO-TI / IATA-DGR)
PHOSPHORIC ACID, SOLUTION

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 8
Classification code : C1
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E
Special provisions : LQ 5 I · E 1
Hazard label(s) : 8

Sea transport (IMDG)

Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 5 I · E 1
Hazard label(s) : 8

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8
Special provisions : E 1
Hazard label(s) : 8

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14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

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 legislation

Regulation n°. 1907/2006/CE (REACH).

Regulation n°. 1272/2008/CE (CLP) and subsequent amendments.

Reg. 878/2020/UE (Amending Regulation (EC) no. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH))

Authorisations and/or restrictions on use

Substance subjected to restriction in accordance with the Annex XVII of Regulation (CE) 1907/2006. (restriction num. 3)
(restriction n.75)

Other regulations (EU)

Regulation (CE) 1907/2006: Substance of very high concern (SVHC) included in the Candidate List None

National regulations

Italy: Legislative Decree 81/2008 (Consolidated Law on protection of health and safety at work), as amended and Directive 2009/161/UE - chemical risk assessment in accordance with Title IX

Water hazard class (WGK)

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

15.2 Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

LEGENDA:

ADR:	Accord européen relative au transport international des marchandises dangereuses par route (accordo europeo relativo al trasporto internazionale delle merci pericolose su strada)
ASTM:	ASTM International, originariamente nota come American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances (Registro Europeo delle Sostanze chimiche in Commercio)
EC(0/50/100):	Effective Concentration 0/50/100 (Concentrazione Effettiva Massima per 0/50/100% degli Individui)
LC(0/50/100):	Lethal Concentration 0/50/100 (Concentrazione Letale per 0/50/100% degli Individui)
IC50:	Inhibitor Concentration 50 (Concentrazione Inibente per il 50% degli Individui)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH), (EU)
No.2020/878



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Code: ACI018000000
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NOEL:	No Observed Effect Level (Dose massima senza effetti)
NOEC:	No Observed Effect Concentration (Concentrazione massima senza effetti)
LOEC:	Lowest Observed Effect Concentration (Concentrazione massima alla quale è possibile evidenziare un effetto)
DNEL:	Derived No Effect Level (Dose derivata di non effetto)
DMEL:	Derived Minimum Effect Level (Dose derivata di minimo effetto)
CLP:	Classification, Labelling and Packaging (Classificazione, Etichettatura e Imballaggio)
CSR:	Rapporto sulla Sicurezza Chimica (Chemical Safety Report)
LD(0/50/100):	Lethal Dose 0/50/100 (Dose Letale per 0/50/100% degli Individui)
IATA:	International Air Transport Association (Associazione Internazionale del Trasporto Aereo)
ICAO:	International Civil Aviation Organization (Organizzazione Internazionale dell'Aviazione Civile)
Codice IMDG:	International Maritime Dangerous Goods code (Codice sul Regolamento del Trasporto Marittimo)
PBT:	Persistent, bioaccumulative and toxic (sostanze persistenti bioaccumulabili e tossiche)
RID:	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regolamento concernente il trasporto Internazionale ferroviario delle merci Pericolose)
STEL:	Short term exposure limit (limite di esposizione a breve termine)
TLV:	Threshold limit value (soglia di valore limite)
TWA:	Time Weighted Average (media ponderata nel tempo)
UE:	Unione Europea
vPvB:	Very persistent very bioaccumulative (sostanze molto persistenti e molto bioaccumulabili)
N.D.:	Non disponibile.
N.A.:	Non applicabile
VwVwS.:	Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes (Verwaltungsvorschrift wassergefährdende Stoffe – VwVwS)
PNEC:	Predicted No Effect Concentration
PNOS:	Particulates not Otherwise Specified
BOD:	Biochemical Oxygen Demand
COD:	Chemical Oxygen Demand
BCF:	BioConcentration Factor
TRGS :	Technische Regeln für Gefahrstoffe -Technical Rules for Hazardous Substances, defined by The Federal Institute for Occupational Safety and Health, Germany
LCLo:	Lethal Concentration Low (La minima concentrazione letale)
ThOD:	Theoretical Oxygen Demand

16.3 Key literature references and sources for data

None

16.4 Relevant H- and EUH-phrases (Number and full text)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

16.5 Training advice

None

16.6 Additional information

None

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. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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No.	Short title	Main User Group (SU)	Sector of Use (SU)	Product Category (PC)	Process Category (PROC)	Environmental Release Category (ERC)	Article Category (AC)	Specified
1	Industrial use	3	NA	NA	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15	2, 3, 4, 6a, 6b, 6d	NA	ES1460
2	Professional use	22	NA	9a, 9b, 12, 14, 15, 31, 35, 37, 38	8a, 8b, 9, 10, 11, 13, 15, 19	8a, 8b, 8c, 8e	NA	ES1470
3	Consumer use	21	NA	12, 31, 35, 38, 39	NA	8a, 8b, 8d, 8e	NA	ES1513

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1. Short title of Exposure Scenario 1: Industrial use

Main User Groups	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) PROC7: Industrial spraying PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC15: Use as laboratory reagent
Environmental Release Categories	ERC2: Formulation of preparations ERC3: Formulation in materials ERC4: Industrial use of processing aids in processes and products, not becoming part of articles ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates) ERC6b: Industrial use of reactive processing aids ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers
Activity	Note: this Exposure Scenario is only relevant for an appropriated use according to the quality grade of the substance delivered

2.1 Contributing scenario controlling environmental exposure for: ERC2, ERC3, ERC4, ERC6a, ERC6b, ERC6d

Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 %.
Technical conditions and measures at process level to prevent release Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Organizational measures to prevent/limit release from the site	Soil	Install a retention tank
	Prevent environmental discharge consistent with regulatory requirements. Council Directive 96/61/EC concerning integrated pollution prevention and control and national regulations concerning phosphates in industrial wastewater have to be followed to minimise the risk of eutrophication due to phosphate releases Provide regular control of specimens / pH May cause eutrophication at very low concentration	

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Conditions and measures related to external treatment of waste for disposal

Waste treatment

Neutralize contaminated cleaning water prior to disposal (pH 6 to 9)

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC14, PROC15

Product characteristics	Concentration of the Substance in Mixture/Article	Covers concentrations more than 25%
	Physical Form (at time of use)	liquid
Frequency and duration of use	Frequency of use	> 4 hours/day
Other operational conditions affecting workers exposure	Indoor use	
Technical conditions and measures to control dispersion from source towards the worker	Use in semi-automated and predominantly enclosed filling lines. Drain down and flush system prior to equipment opening or maintenance. Avoid mist, vapours and spray production Provide local exhaust ventilation (LEV). (Efficiency: > 90 %)(PROC2, PROC3, PROC4, PROC5, PROC14, PROC15)	
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure that eyewash stations and safety showers are close to the workstation location. Employees must be trained in the proper use of PPE, and when to use it	
Conditions and measures related to personal protection, hygiene and health evaluation	Chemical resistant goggles must be worn. or Safety glasses with side shields conforming to EN166 Wear chemically resistant gloves. Respiratory protection is not necessary if room is well ventilated. If no adequate ventilation is available: Respiratory protection complying with EN 141. Wear a half mask respirator according to standard EN 405 Protective clothing Impervious footwear must be worn Wear respiratory protection. (Efficiency: > 75 %)(PROC3, PROC4, PROC5, PROC14, PROC15)	

2.3 Contributing scenario controlling worker exposure for: PROC7, PROC8a, PROC8b, PROC10, PROC13

Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 %.
	Physical Form (at time of use)	liquid
Frequency and duration of use	Frequency of use	> 4 hours/day
Other operational conditions affecting workers exposure	Indoor use	
Technical conditions and measures to control dispersion from source towards the worker	Use in semi-automated and predominantly enclosed filling lines. Drain down and flush system prior to equipment opening or maintenance. Avoid mist, vapours and spray production Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure. (Efficiency: 99 %)(PROC7) Provide local exhaust ventilation (LEV). (Efficiency: > 50 %)(PROC8a, PROC8b,	

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	PROC10)
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure that eyewash stations and safety showers are close to the workstation location. Employees must be trained in the proper use of PPE, and when to use it
Conditions and measures related to personal protection, hygiene and health evaluation	Chemical resistant goggles must be worn. or Safety glasses with side shields conforming to EN166 Wear chemically resistant gloves. Respiratory protection is not necessary if room is well ventilated. If no adequate ventilation is available: Respiratory protection complying with EN 141. Wear a half mask respirator according to standard EN 405 Protective clothing Impervious footwear must be worn

3. Exposure estimation and reference to its source
Environment

No exposure assessment presented for the environment.

Workers

PROC3, PROC4, PROC5, PROC14, PROC15: Tier 1 MEASE

PROC1, PROC2, PROC7, PROC8a, PROC8b, PROC10, PROC13: Advanced REACH Tool (ART model)

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC1	---	Inhalation worker exposure	0,04mg/m ³	0,04
PROC1	---	Dermal worker exposure	---	0,04
PROC2	---	Inhalation worker exposure	0,401mg/m ³	0,401
PROC2	---	Dermal worker exposure	---	0,401
PROC3	---	Inhalation worker exposure	0,301mg/m ³	0,301
PROC3	---	Dermal worker exposure	---	0,301
PROC4, PROC5, PROC14, PROC15	---	Inhalation worker exposure	0,501mg/m ³	0,501
PROC4, PROC5, PROC14, PROC15	---	Dermal worker exposure	---	0,501
PROC7	---	Inhalation worker exposure	0,68mg/m ³	0,68
PROC7	---	Dermal worker exposure	---	0,68
PROC8a, PROC8b	---	Inhalation worker exposure	0,77mg/m ³	0,77
PROC8a, PROC8b	---	Dermal worker exposure	---	0,77

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PROC10	---	Inhalation worker exposure	0,86mg/m ³	0,86
PROC10	---	Dermal worker exposure	---	0,86
PROC13	---	Inhalation worker exposure	0,017mg/m ³	0,017
PROC13	---	Dermal worker exposure	---	0,017

Dermal exposure is limited due to the corrosive property of the substance.

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Guidance is based on assumed operating conditions which may not be applicable to all sites. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

For further information on the assessment method, see: <http://www.ebrc.de/mease.html>

Additional good practice advice beyond the REACH Chemical Safety Assessment

Assumes a good basic standard of occupational hygiene is implemented.

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1. Short title of Exposure Scenario 2: Professional use

Main User Groups	SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Chemical product category	PC9a: Coatings and paints, thinners, paint removers PC9b: Fillers, putties, plasters, modelling clay PC12: Fertilizers PC14: Metal surface treatment products, including galvanic and electroplating products PC15: Non-metal-surface treatment products PC31: Polishes and wax blends PC35: Washing and cleaning products PC37: Water treatment chemicals PC38: Welding and soldering products (with flux coatings or flux cores.), flux products
Process categories	PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring PROC15: Use as laboratory reagent PROC19: Hand-mixing with intimate contact and only PPE available
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8b: Wide dispersive indoor use of reactive substances in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8e: Wide dispersive outdoor use of reactive substances in open systems
Activity	Note: this Exposure Scenario is only relevant for an appropriated use according to the quality grade of the substance delivered

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8b, ERC8c, ERC8e

Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 %.
Technical conditions and measures at process level to prevent release	Soil	Install a retention tank
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Prevent environmental discharge consistent with regulatory requirements. Council Directive 96/61/EC concerning integrated pollution prevention and control and national regulations concerning phosphates in industrial wastewater have to be followed to minimise the risk of eutrophication due to phosphate releases	
Organizational measures to prevent/limit release from the site	Provide regular control of specimens / pH May cause eutrophication at very low concentration	
Conditions and measures related to external treatment of waste for disposal	Waste treatment	Neutralize contaminated cleaning water prior to disposal (pH 6 to 9)

2.2 Contributing scenario controlling worker exposure for: PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15

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Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product: 5% - 25%
	Physical Form (at time of use)	liquid
Frequency and duration of use	Exposure duration per day	> 4 h
Other operational conditions affecting workers exposure	Indoor use	
Technical conditions and measures to control dispersion from source towards the worker	Use in semi-automated and predominantly enclosed filling lines. Drain down and flush system prior to equipment opening or maintenance. Avoid mist, vapours and spray production	
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure that eyewash stations and safety showers are close to the workstation location. Employees must be trained in the proper use of PPE, and when to use it	
Conditions and measures related to personal protection, hygiene and health evaluation	Chemical resistant goggles must be worn. or Use eye protection according to EN 166. Wear chemically resistant gloves. Respiratory protection is not necessary if room is well ventilated. If no adequate ventilation is available: Respiratory protection complying with EN 141. Wear a half mask respirator according to standard EN 405 Protective clothing Impervious footwear must be worn Wear respiratory protection. (Efficiency: > 95 %)	
2.3 Contributing scenario controlling worker exposure for: PROC8a, PROC8b, PROC9, PROC15, PROC19		
Product characteristics	Concentration of the Substance in Mixture/Article	Covers concentrations more than 25%
	Physical Form (at time of use)	liquid
Frequency and duration of use	Exposure duration per day	> 4 h
Other operational conditions affecting workers exposure	Indoor use	
Technical conditions and measures to control dispersion from source towards the worker	Use in semi-automated and predominantly enclosed filling lines. Drain down and flush system prior to equipment opening or maintenance. Avoid mist, vapours and spray production	
	Provide local exhaust ventilation (LEV). (Efficiency: > 50 %)(PROC8a)	
	Provide local exhaust ventilation (LEV). (Efficiency: > 97 %)(PROC8b)	
	Provide local exhaust ventilation (LEV). (Efficiency: > 90 %)(PROC9, PROC15)	
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure that eyewash stations and safety showers are close to the workstation location. Employees must be trained in the proper use of PPE, and when to use it	
Conditions and measures related to personal protection, hygiene and health evaluation	Chemical resistant goggles must be worn. or Use eye protection according to EN 166. Wear chemically resistant gloves.	
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EN		

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Respiratory protection is not necessary if room is well ventilated.

If no adequate ventilation is available:

Respiratory protection complying with EN 141.

Wear a half mask respirator according to standard EN 405

Protective clothing

Impervious footwear must be worn

Wear respiratory protection. (Efficiency: > 95 %)

Wear respiratory protection. (Efficiency: > 75 %)(PROC8b, PROC15)

Wear respiratory protection. (Efficiency: > 80 %)(PROC9)

3. Exposure estimation and reference to its source
Environment

No exposure assessment presented for the environment.

Workers

PROC8b, PROC9, PROC11, PROC15, PROC19: Tier 1 MEASE

PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15: Advanced REACH Tool (ART model)

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC8a	Concentration of substance in product: 5% - 25%	Inhalation worker exposure	0,03mg/m ³	0,03
PROC8a	Concentration of substance in product: 5% - 25%	Dermal worker exposure	---	0,03
PROC8a	Concentration >25%	Inhalation worker exposure	0,77mg/m ³	0,77
PROC8a	Concentration >25%	Dermal worker exposure	---	0,77
PROC8b	Concentration of substance in product: 5% - 25%	Inhalation worker exposure	0,03mg/m ³	0,03
PROC8b	Concentration of substance in product: 5% - 25%	Dermal worker exposure	---	0,03
PROC8b	Concentration >25%	Inhalation worker exposure	0,301mg/m ³	0,301
PROC8b	Concentration >25%	Dermal worker exposure	---	0,301
PROC9	Concentration of substance in product: 5% - 25%	Inhalation worker exposure	0,03mg/m ³	0,03
PROC9	Concentration of substance in product: 5% - 25%	Dermal worker exposure	---	0,03
PROC9	Concentration >25%	Inhalation worker exposure	0,802mg/m ³	0,802
PROC9	Concentration >25%	Dermal worker exposure	---	0,802

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PROC10	Concentration of substance in product: 5% - 25%	Inhalation worker exposure	0,03mg/m ³	0,03
PROC10	Concentration of substance in product: 5% - 25%	Dermal worker exposure	---	0,03
PROC11	Concentration of substance in product: 5% - 25%	Inhalation worker exposure	0,6mg/m ³	0,6
PROC11	Concentration of substance in product: 5% - 25%	Dermal worker exposure	---	0,6
PROC13	Concentration of substance in product: 5% - 25%	Inhalation worker exposure	0,03mg/m ³	0,03
PROC13	Concentration of substance in product: 5% - 25%	Dermal worker exposure	---	0,03
PROC15	Concentration of substance in product: 5% - 25%	Inhalation worker exposure	0,006mg/m ³	0,006
PROC15	Concentration of substance in product: 5% - 25%	Dermal worker exposure	---	0,006
PROC15	Concentration >25%	Inhalation worker exposure	0,501mg/m ³	0,501
PROC15	Concentration >25%	Dermal worker exposure	---	0,501
PROC19	Concentration >25%	Inhalation worker exposure	0,5mg/m ³	0,5
PROC19	Concentration >25%	Dermal worker exposure	---	0,5

Dermal exposure is limited due to the corrosive property of the substance.

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Guidance is based on assumed operating conditions which may not be applicable to all sites. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

For further information on the assessment method, see: <http://www.ebrc.de/mease.html>

Additional good practice advice beyond the REACH Chemical Safety Assessment

Assumes a good basic standard of occupational hygiene is implemented.

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1. Short title of Exposure Scenario 3: Consumer use

Main User Groups	SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	PC12: Fertilizers PC31: Polishes and wax blends PC35: Washing and cleaning products PC38: Welding and soldering products (with flux coatings or flux cores.), flux products PC39: Cosmetics, personal care products
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8b: Wide dispersive indoor use of reactive substances in open systems ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8e: Wide dispersive outdoor use of reactive substances in open systems
Activity	Note: this Exposure Scenario is only relevant for an appropriated use according to the quality grade of the substance delivered

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8b, ERC8d, ERC8e

Technical conditions and measures at process level to prevent release Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Organizational measures to prevent/limit release from the site	There are no specific risk management measures related to environment.	
Conditions and measures related to sewage treatment plant	Type of Sewage Treatment Plant	Municipal sewage treatment plant
	Type of Sewage Treatment Plant	Chemical/biological
Conditions and measures related to external treatment of waste for disposal	Waste treatment	Batteries should be recycled as much as possible (e.g. by returning to a public recycling facility).
	Disposal methods	Contaminated packaging material will contain negligible amounts of substance. It will be disposed as domestic/ municipal waste. The substance is not expected to cause a significant pH effect to the environment when incinerated or land filled.

2.2 Contributing scenario controlling consumer exposure for: PC12, PC31, PC35, PC38, PC39

Product characteristics	Concentration of the Substance in Mixture/Article	Covers the percentage of the substance in the product up to 25 %.
	Physical Form (at time of use)	solid, liquid
Amount used	Amount used per event	0,110 kg
	The substance is employed as electrolyte in batteries. Furthermore the amounts of the product used in these mixtures will interact with other ingredients in acid-base reactions and thus only residues of the substance will remain as such in the final product	

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Frequency and duration of use	Frequency of use	1 Times per day
	Frequency of use	20 minutes/event
	Frequency of use	360 days/year
Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)	Consumer Measures	It is required to use resistant labelling-package to avoid its auto-damage and loss of the label integrity, under normal use and storage of the product. The lack of quality of the package provokes the physical loss of information on hazards and use instructions. It is required that improved use instructions, and product information should always be provided to the consumers. This clearly can efficiently reduce the risk of misuse. It is advisable to delivery only in small amounts. Required that household chemicals, containing acid over 10% which may be accessible to children should be provided with a child-resistant fastening and warning of danger Rinse and dry hands after use Do not apply product into ventilator openings or slots. Ventilate the room after use Wash hands thoroughly after handling. Keep out of the reach of children. Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water Wear suitable gloves. Use suitable eye protection. If splashes are likely to occur: Wear long sleeves

3. Exposure estimation and reference to its source
Environment

Consumer uses relate to already diluted products which will further be neutralized quickly in the sewer, well before reaching a WWTP or surface water. There is no environmental release as batteries are sealed articles with a long service life. Qualitative approach used to conclude safe use.

Consumers

relevant for all PCs: ConsExpo

relevant for all PCs: UK POEM model

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
relevant for all PCs	Spreading of fertiliser, (max. 10% solution)	Consumer inhalation exposure	0,01mg/m ³	0,014
relevant for all PCs	Bath cleaner (acid), (15% w/w)	Consumer inhalation exposure	0,0687mg/m ³	0,094

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relevant for all PCs	Toilet cleaners (bleach/acid), (15% w/w)	Consumer inhalation exposure	0,085mg/m ³	0,116
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Given that batteries are sealed articles and that acid involved in their maintenance is not intended for direct release(>,<) exposure to and emission from acid in these life-cycle stages should be negligible and therefore an exposure assessment is not considered deemed. Although accidental exposure to the substance at a concentration higher than 10% is normally excluded from an EU chemical safety assessment and accidental exposure is not considered in the present assessment, several risk management measures for consumers are included in the dossier. There is no environmental release as batteries are sealed articles with a long service life. Indirect exposure of humans via the environment is not relevant in the case of this substance.

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Guidance is based on assumed operating conditions which may not be applicable to all sites. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

For further information on the assessment method, see:

<http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp>