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Chemetall U.S., Inc., 675 Central Avenue, New Providence, NJ 07974

CDL USA INC
3 LEMNAH DRIVE
SAINT ALBANS VT 05478-2327

(0004650291)

25.04.2023
Chemetall U.S., Inc.
675 Central Avenue
New Providence, NJ 07974

Tel.: +18005264473
Fax: +1 908 464-4156

Product safety data sheets for our products

Dear valued customer,

The enclosed material safety data sheet is generated by our automatic distribution system and is sent to you either because it relates to a current order or because a significant change has occurred in the data previously provided.

This material safety data sheet replaces the previous version, which is no longer valid.
Please pass these safety data sheets on to the appropriate people.

Queries concerning the content of safety data sheets should be sent direct to the business office indicated in the safety data sheet or to your normal sales contact.

If the product(s) contains chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372, these chemicals are listed in Section 15 of the SDS. If you are unsure of your responsibilities under the Emergency Planning and Community Right-To-Know Act; or you require more information; call the EPA Hotline (1-800-424-9346).

For your convenience we can offer to send the safety data sheets for our products by e-mail as pdf files. Please review and complete page 2 of this letter if you are interested in receiving an e-mail method of distribution.

Best regards

Chemetall U.S., Inc.

Computer generated letter bearing no signature.



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675 Central Avenue
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Tel.: +1 800 526 4473
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Enclosures:

Material name		Our order #:	Your order #:
Gardacid P 84	I	0119235831	054848



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Dispatch option (please fill in block letters):

Change over from postal to e-mail dispatch

e-mail address^{a)}: _____

Change of the e-mail address company or 3rd party SDS manager

E-mail address (old): _____

Change of the e-mail address company or 3rd party SDS manager: _____

^{a)} Preferably an e-mail address with sufficient mail box capacity to receive safety data sheets. Please make sure, that emails sent from email-address shown above are not blocked or classified as spam.

Sender (please fill out legibly for possible future questions):

Company:

Dep.:

Name:

Telephone:

Fax:

e-mail (contact person):

Date, Signature

Safety Data Sheet

Gardacid P 84

Revision date : 2021/07/06
Version: 3.0

Page: 1/9
(30769371/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Gardacid P 84

Recommended use of the chemical and restriction on use

Recommended use*: Detergents

Unsuitable for use: Uses other than recommended

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

Chemetall U.S., Inc.
675 Central Avenue
New Providence, NJ 07974 – USA
+1 800 526-4473
sds.na-chemetall@basf.com

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 800-424-9300, +1-703-527-3887

Other means of identification

Chemical family: inorganic, organic, blend

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Met. Corr.	1	Corrosive to metals

Label elements

Pictogram:

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Signal Word:
Danger

Hazard Statement:

H318 Causes serious eye damage.
H290 May be corrosive to metals.

Precautionary Statements (Prevention):

P234 Keep only in original packaging.
P280 Wear protective gloves, protective clothing and eye protection or face protection.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or physician.
P390 Absorb spillage to prevent material damage.

Precautionary Statements (Storage):

P406 Store in corrosive resistant container with a resistant inner liner.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Citric acid

CAS Number: 77-92-9
Content (W/W): ≥ 5.0 - $< 7.0\%$
Synonym: 2-Hydroxy-1,2,3-propanetricarboxylic acid; Citric acid

sodium hydrogensulfate

CAS Number: 7681-38-1
Content (W/W): ≥ 75.0 - $\leq 100.0\%$
Synonym: No data available.

Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salt

CAS Number: 68081-81-2
Content (W/W): ≥ 1.0 - $< 3.0\%$
Synonym: No data available.

4. First-Aid Measures

Description of first aid measures

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General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

If on skin:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

If in eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

If swallowed:

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Information on: Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salt

Symptoms: Overexposure may cause:; corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Hazards: Dusts may cause mechanical irritation to eyes.

Indication of any immediate medical attention and special treatment needed

Note to physician

Antidote: No known specific antidote.
Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:
water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
carbon oxides, phosphorus oxides, sulfur oxides

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Advice for fire-fighters

Protective equipment for fire-fighting:
Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Keep away from sources of ignition. Ensure adequate ventilation. Do not inhale dusts. Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

Methods and material for containment and cleaning up

Avoid dust formation. Contain and collect mechanically and dispose of in accordance with local regulations. Ensure adequate ventilation.

7. Handling and Storage

Precautions for safe handling

Avoid dust formation. Protect against moisture. Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid dust formation. Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

Conditions for safe storage, including any incompatibilities

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: Stove-lacquer R 78433, Stove-lacquer EHD0022, High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephthalate (PET), Polypropylene (PP)

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Protect against moisture. Avoid direct sunlight. Store only in corrosion proof containers. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. avoid contact with metals

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8. Exposure Controls/Personal Protection

No occupational exposure limits known.

Personal protective equipment

Respiratory protection:

Respiratory protection required if exposure limit (if available) may be exceeded

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1), nitrile rubber (NBR) - 0.4 mm coating thickness, Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1, The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties)., The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Avoid inhalation of dusts. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form:	solid
Odour:	No applicable information available.
Odour threshold:	No applicable information available.
Colour:	No applicable information available.
pH value:	1.5 (15.00000 g/l)
Melting point:	not determined
Freezing point:	not determined
Boiling range:	not determined
onset of boiling:	not determined
Sublimation point:	No applicable information available.
Flash point:	not applicable
Flammability:	not flammable
Lower explosion limit:	not applicable
Upper explosion limit:	No applicable information available.
Autoignition:	not applicable
Vapour pressure:	(20 °C) not determined
Density:	1.000 g/cm3 (20 °C)
Relative density:	No applicable information available.
Bulk density:	1,198 kg/m3
Vapour density:	No applicable information available.

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Partitioning coefficient n-octanol/water (log Pow):	No applicable information available.
Thermal decomposition:	No applicable information available.
Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	(20 °C) not applicable
Solubility in water:	No applicable information available.
Miscibility with water:	miscible
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	No applicable information available.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
Corrosive effect on metals.

Oxidizing properties:
not fire-propagating

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Dust can form an explosive mixture with air. Reacts with metals, with evolution of hydrogen.

Conditions to avoid

Avoid dust formation. Avoid direct sunlight. Avoid humidity. avoid contact with metals

Incompatible materials

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Hazardous decomposition products

Decomposition products:
When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
No applicable information available.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

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Irritation / corrosion

Assessment of irritating effects: Causes serious eye damage.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Do not allow to enter drains or waterways. There are no test results available for this product.

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

Persistence and degradability

Assessment biodegradation and elimination (H2O)

No data available concerning biodegradation and elimination.

Bioaccumulative potential

Bioaccumulation potential

No data available.

Mobility in soil

Assessment transport between environmental compartments

No data available.

13. Disposal considerations

Waste disposal of substance:

Observe national and local legal requirements.

Container disposal:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport

USDOT

Hazard class:	8
Packing group:	III
ID number:	UN 1759
Hazard label:	8
Proper shipping name:	CORROSIVE SOLID, N.O.S. (contains Citric acid)

Sea transport

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IMDG

Hazard class: 8
Packing group: III
ID number: UN 1759
Hazard label: 8
Marine pollutant: NO
Proper shipping name: CORROSIVE SOLID, N.O.S. (contains Citric acid)

Air transport

IATA/ICAO

Hazard class: 8
Packing group: III
ID number: UN 1759
Hazard label: 8
Proper shipping name: CORROSIVE SOLID, N.O.S. (contains Citric acid)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

CERCLA RQ

5000 LBS

CAS Number

7558-79-4

Chemical name

disodium hydrogen orthophosphate

State regulations

State RTK

PA

CAS Number

7558-79-4

Chemical name

disodium hydrogen orthophosphate

7757-82-6

Sodium sulfate

NJ

7558-79-4

disodium hydrogen orthophosphate

7681-38-1

sodium hydrogensulfate

NFPA Hazard codes:

Health: 3 Fire: 0 Reactivity: 1 Special:

HMIS III rating

Health: 3 Flammability: 0 Physical hazard: 1

16. Other Information

SDS Prepared by:

Chemetall (now part of BASF Group) NA Product Regulations
SDS Prepared on: 2021/07/06

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in

Safety Data Sheet

Gardacid P 84

Revision date : 2021/07/06
Version: 3.0

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(30769371/SDS_GEN_US/EN)

a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE , IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.
END OF DATA SHEET



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Best regards

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Enclosures:

Material name		Our order #:	Your order #:
330000 Oakite 33	I	0119250882	162707



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- Change over from postal to e-mail dispatch

e-mail address^{a)}: _____

- Change of the e-mail address company or 3rd party SDS manager

E-mail address (old): _____

Change of the e-mail address company or 3rd party SDS manager: _____

^{a)} Preferably an e-mail address with sufficient mail box capacity to receive safety data sheets. Please make sure, that emails sent from email-address shown above are not blocked or classified as spam.

Sender (please fill out legibly for possible future questions):

Company:

Dep.:

Name:

Telephone:

Fax:

e-mail (contact person):

Date, Signature

Safety Data Sheet

330000 Oakite 33

Revision date : 2023/03/15
Version: 5.0

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(30692312/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

330000 Oakite 33

Recommended use of the chemical and restriction on use

Recommended use*: Detergents

Unsuitable for use: Uses other than recommended

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

Chemetall U.S., Inc.
675 Central Avenue
New Providence, NJ 07974 – USA
+1 800 526-4473
sds.na-chemetall@basf.com

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 800-424-9300, +1-703-527-3887

Other means of identification

Chemical family: Water, organic acids, organic solvent, inorganic acids

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Skin Corr./Irrit.	1	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Met. Corr.	1	Corrosive to metals

Label elements

Safety Data Sheet

330000 Oakite 33

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Pictogram:



Signal Word:
Danger

Hazard Statement:

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

Precautionary Statements (Prevention):

P280 Wear protective gloves, protective clothing and eye protection or face protection.
P260 Do not breathe the mist or vapour or spray.
P264 Wash contaminated body parts thoroughly after handling.
P234 Keep only in original packaging.

Precautionary Statements (Response):

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or physician.
P390 Absorb spillage to prevent material damage.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary Statements (Storage):

P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

phosphoric acid

CAS Number: 7664-38-2
Content (W/W): >= 50.0 - < 75.0%
Synonym: Orthophosphoric acid

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2-butoxyethanol

CAS Number: 111-76-2
Content (W/W): ≥ 15.0 - $< 20.0\%$
Synonym: 2-Butoxyethanol; Ethylene glycol monobutyl ether

Alkohol, C9-C11, ethoxyliert

CAS Number: 68439-46-3
Content (W/W): ≥ 1.0 - $< 3.0\%$
Synonym: Alkohol, C9-C11, ethoxyliert

4. First-Aid Measures

Description of first aid measures

General advice:

Keep warm, calm and covered up. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

If inhaled:

Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

If on skin:

Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required.

If in eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

If swallowed:

Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Rinse mouth immediately with water. Keep at rest.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Information on: 2-butoxyethanol

Symptoms: Overexposure may cause:; skin irritation, irritation of respiratory tract, erythema, nausea, headache, vomiting, diarrhea, abdominal cramps, hemolysis, blood in urine, CNS depression

Information on: phosphoric acid

Symptoms: Overexposure may cause:; vomiting, acidosis, abdominal cramps, shock, bloody diarrhea

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Information on: Alkohol, C9-C11, ethoxyliert
Symptoms: No data available.

Hazards: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Indication of any immediate medical attention and special treatment needed

Note to physician

Antidote: No known specific antidote.
Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:
water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
phosphorus oxides, carbon oxides
Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

Advice for fire-fighters

Protective equipment for fire-fighting:
Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

Methods and material for containment and cleaning up

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Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

7. Handling and Storage

Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

The relevant fire protection measures should be noted.

Conditions for safe storage, including any incompatibilities

Segregate from bases. Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephthalate (PET), Polypropylene (PP)

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Store only in corrosion proof containers. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. avoid contact with metals Store protected against freezing.

Storage stability:

Storage temperature: 0 - 40 °C

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

2-butoxyethanol	ACGIH, US:	TWA value 20 ppm ;
	OSHA Z1:	PEL 50 ppm 240 mg/m3 ;
	OSHA Z1:	Skin Designation ; The substance can be absorbed through the skin.
phosphoric acid	ACGIH, US:	TWA value 1 mg/m3 ;
	ACGIH, US:	STEL value 3 mg/m3 ;
	OSHA Z1:	PEL 1 mg/m3 ;

Personal protective equipment

Respiratory protection:

Respiratory protection required if exposure limit (if available) may be exceeded

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Hand protection:

Chemical resistant protective gloves (EN ISO 374-1), chloroprene rubber (CR) - 0.5 mm coating thickness, nitrile rubber (NBR) - 0.4 mm coating thickness, butyl rubber (butyl) - 0.7 mm coating thickness, Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1, The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties),. The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

General safety and hygiene measures:

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form:	liquid
Odour:	No data available.
Odour threshold:	No data available.
Colour:	tan
pH value:	1.0 - 2.0 (20 °C) (undiluted)
Melting point:	-15 °C
Freezing point:	-15 °C
Boiling range:	not determined
onset of boiling:	not determined
Sublimation point:	No applicable information available.
Flash point:	not applicable The product has not been tested. The statement has been derived from the properties of the individual components. (ISO 3679)
Flammability:	not applicable
Lower explosion limit:	not determined
Upper explosion limit:	not applicable
Vapour pressure:	(20 °C) not determined
Density:	1.342 g/cm ³ (20 °C)
Relative density:	No applicable information available.
Vapour density:	Water content greater than 10%.
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	No applicable information available.

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Viscosity, kinematic:	(40 °C) not determined
Solubility in water:	fully soluble
Miscibility with water:	miscible
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	No applicable information available.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
Corrosive effect on metals.

Oxidizing properties:
not fire-propagating

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Reacts with metals, with evolution of hydrogen.

Conditions to avoid

Avoid direct sunlight. Avoid freezing. avoid contact with metals

Incompatible materials

metal, bases, Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Hazardous decomposition products

Decomposition products:
Possible decomposition products: When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

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Assessment of acute toxicity: Based on available data, the classification criteria are not met.

Oral

Type of value: ATE

Value: 2,321 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Inhalation

Type of value: ATE

Value: 63 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components.

Dermal

Type of value: ATE

Value: > 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment other acute effects

Assessment of STOT single:

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

Irritation / corrosion

Assessment of irritating effects: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

Information on: 2-butoxyethanol

Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.

Information on: phosphoric acid

Assessment of irritating effects: Corrosive! Damages skin and eyes.

Sensitization

Assessment of sensitization: Based on available data, the classification criteria are not met.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

Genetic toxicity

Assessment of mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity: Based on available data, the classification criteria are not met.

Information on: 2-butoxyethanol

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Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. A clear indication of an increased risk of cancer in humans has so far not been shown. IARC Group 3 (not classifiable as to human carcinogenicity).

Reproductive toxicity

Assessment of reproduction toxicity: Based on available data, the classification criteria are not met.

Teratogenicity

Assessment of teratogenicity: Based on available data, the classification criteria are not met.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways.

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

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

No data available concerning biodegradation and elimination.

Bioaccumulative potential

Bioaccumulation potential

No data available.

Mobility in soil

Assessment transport between environmental compartments

No data available.

13. Disposal considerations

Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.

Container disposal:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport

USDOT

Hazard class: 8

Packing group: III

ID number: UN 1805

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Hazard label: 8
Proper shipping name: PHOSPHORIC ACID SOLUTION

Sea transport

IMDG

Hazard class: 8
Packing group: III
ID number: UN 1805
Hazard label: 8
Marine pollutant: NO
Proper shipping name: PHOSPHORIC ACID SOLUTION

Air transport

IATA/ICAO

Hazard class: 8
Packing group: III
ID number: UN 1805
Hazard label: 8
Proper shipping name: PHOSPHORIC ACID SOLUTION

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

EPCRA 313:

<u>CAS Number</u>	<u>Chemical name</u>
111-76-2	2-butoxyethanol

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
5000 LBS	7664-38-2	phosphoric acid

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	111-76-2	2-butoxyethanol
	7664-38-2	phosphoric acid
PA	111-76-2	2-butoxyethanol
	7664-38-2	phosphoric acid

NFPA Hazard codes:

Health: 3 Fire: 1 Reactivity: 1 Special:

HMIS III rating

Health: 3 Flammability: 1 Physical hazard: 1

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16. Other Information

SDS Prepared by:

Chemetall (now part of BASF Group) NA Product Regulations
SDS Prepared on: 2023/03/15

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