
SAFETY DATA SHEET

1 Identification of the substance or preparation and the supplier

Product Name: **METALBRITE HD**
 Datasheet Number: 571679 2.0.0
 Use of the substance/preparation: Cleaning agent
 Product Part Number: 571679 (25 liter)

Name of Supplier: Unitor ASA
 Address of Supplier: Willem Barentszstraat 50
 3165 AB Rotterdam-Albrandswaard
 The Netherlands

Telephone: +31 10 4877 777
 Fax: +31 10 4877 888
 Responsible Person: Leen de Visser, Corporate Product Safety Manager, Tel.: +31 6 538 63736

Name of Manufacturer: UNITOR CHEMICALS AS
 Address of Manufacturer: P.O.Box 15
 3141 Kjøpmannskjær
 Norway.

Telephone: +47 333 515 00

Emergency Telephone: NCEC: +44 1865 407333
 CHEMTREC (800) 424 9300
 CMA +1 703 527 3887
 Greece +30 1 7793777

2 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases	Symbols
Phosphoric acid	30-60	7664-38-2	231-633-2	34	C
2-2(butoxyethoxy)ethanol	1-5	112-34-5	203-961-6	36	Xi
Non classified ingredients	30-60				

3 Hazards identification

- Odour: Odourless
- Appearance: Liquid, pale yellow, soluble in water
- Contact with eyes: Can cause damage to the eyes
- Contact with skin: Corrosive to skin
- Inhalation: Vapours or aerosols may cause irritation of eyes, nose and respiratory tract, Can cause damage to the lungs
- Ingestion: The ingestion of significant quantities may cause damage to digestive system



Corrosive

4 First aid measures

Contact with skin

- Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water
- Seek medical attention if irritation persists
- Contaminated clothing should be laundered before reuse

Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids
- Seek immediate medical attention

Ingestion

- Do not induce vomiting
- Give plenty of water to drink
- Never give anything by mouth to an unconscious person
- Seek immediate medical attention

Inhalation

- Remove patient to fresh air
- Give plenty of water to drink
- Never give anything by mouth to an unconscious person
- Obtain immediate medical attention

General

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
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5 Fire-fighting measures

- Non combustible
 - Smoke from fires is corrosive, Decomposition products may include phosphorous compounds
 - Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
 - Smoke from fires is corrosive. Take precautions to protect personnel from exposure
 - Use water spray or fog to knock down and absorb corrosive fumes
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6 Accidental release measures

Personal Precautions

- Wear protective clothing as per section 8

Environmental Precautions

- Do not allow to enter public sewers and watercourses

Immediate Actions

- Shut off source of leak if safe to do so
- Use appropriate containment to avoid environmental contamination (S57)

Clean Up Actions

- Absorb spillage in inert material and shovel up
 - Ventilate the area and wash spill site after material pick-up is complete
 - Do not use metal containers for spilled liquid
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6 Accidental release measures (....)

Special Precautions

- Wear protective clothing as per section 8
- Do not use metal containers for spilled liquid

7 Handling and storage

Handling

- Wear protective clothing as per section 8
- Avoid contact with skin and eyes (S24/25)
- Eyewash bottles should be available

Storage

- Keep only in the original container in a cool, well ventilated place (S3/9/49)
- Keep in acid store
- Protect from frost

8 Exposure controls and personal protection

Exposure Limits

- OES / LTEL 0.2 ppm 1 mg/m³
- (Phosphoric acid)

Exposure controls

- No special ventilation is required unless the product is used in a spray form

Occupational exposure controls

- Wear face mask giving complete face protection
- No respiratory protection is required unless subject to contact with substance mist
- Wear plastic or rubber gloves
- Wear suitable clothing providing resistance to acids



9 Physical and chemical properties

- Odour: Odourless
- Appearance: Liquid, pale yellow, soluble in water
- pH 1.5 - 2.5 at 1 % concentration
- Boiling point >100 °C at 760 mm /Hg
- Vapour pressure - not known
- Vapour density - not known
- Freezing point <0 °C at 760 mm/Hg
- Completely soluble in water
- Specific gravity (water=1) 1.255 - 1.275

9 Physical and chemical properties (....)

- Non combustible

10 Stability and reactivity

- No hazardous reactions known if used for its intended purpose
- Avoid overheating, Avoid contact with alkalis (strong bases)

- Contact with nitrite (e.g. Dieselguard NB, Rocor NB Liquid) liberates toxic gas.

11 Toxicological information

Toxicological information

- No experimental data available

Inhalation

- Can cause damage to the respiratory system

Contact with skin

- Can cause damage to the skin
- Prolonged skin or eye contact may cause chemical burns

Contact with eyes

- Can cause damage to the eyes
- Prolonged skin or eye contact may cause chemical burns

Ingestion

- The ingestion of significant quantities may cause damage to mucous membranes

Carcinogenicity

- No evidence of carcinogenic effects

12 Ecological information

Ecotoxicity

- May cause acute effects in the aquatic environment
- This product does not contain ingredients which are classified in the EU as dangerous for the environment.

Mobility

- Completely soluble in water

Persistence and Biodegradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.

Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly.

In its intended use, the product will not be released into the environment.

- Presents little or no hazard to the aquatic environment

13 Disposal considerations

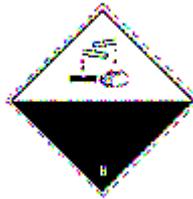
Classification

- EU Waste class: 06.01
- This material and/or its container must be disposed of as hazardous waste

Disposal considerations

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Disposal should be in accordance with local, state or national legislation

14 Transport information



Corrosive

UN

Proper Shipping Name:	Phosphoric acid	UN No.:	1805
Hazard Class:	8	Packing Group:	III

Road/Rail (ADR/RID)

Proper Shipping Name:	Phosphoric acid	ADR UN No.:	1805
ADR Hazard Class:	8	Tremcard:	80S1805

Sea (IMDG)

Proper Shipping Name:	Phosphoric acid	IMDG UN No.:	1805
IMDG Hazard Class.:	8	IMDG Pack Group.:	III
IMDG EmS:	F-A, S-B	IMDG subrisk:	-
IMDG labels:	8	IMDG Flashpoint:	N/A

Air (ICAO/IATA)

Proper Shipping Name:	Phosphoric acid	ICAO Un No.:	1805
ICAO Hazard Class.:	8	ICAO Packing Group.:	III
ICAO subrisk:	-	ICAO Labels:	8, CAO
ICAO Flashpoint:	N/A		

14 Transport information (....)

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Phosphoric acid	Hazardous Material:	Phosphoric acid
Hazard Class:	8	Identification Number:	UN 1805
Product RQ (lbs):	N/E	DOT subrisk:	-
DOT labels:	8	DOT Flashpoint:	N/A

15 Regulatory information



Corrosive

Risk Phrases

- Causes burns (R34)

Safety Phrases

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- Wear suitable protective clothing, eye/face protection and gloves (S36/37/39)
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

16 Other information

(R34: Causes burns. R36: Irritating to eyes.)

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC)