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Category:Occupational Safety

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Caustic Soda

Caustic soda (sodium hydroxide) is a white solid. We use caustic soda primarily as a paint stripper and for surface cleaning.

Sodium hydroxide is mainly used in the form of caustic soda. Solid sodium hydroxide is an integral part of drain cleaners in addition to aluminum shavings. Dissolved in water, the strong alkali (base) oxidizes the aluminum with the evolution of heat and hydrogen and then dissolves fats and proteins in the deposits by saponification.

Hot solution dissolves burn layers in cooking pots (not suitable for aluminum pots).

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Dangers

Causes severe skin burns and eye damage.

File:Hazard C Gefahrenzeichen Ätzend.png

GHS 05, Ätzende Substanzen

Prevention

- Do not breathe dust / fume / gas / mist / vapors / spray.
- Wash thoroughly after handling.
- Wear protective gloves / protective clothing / eye protection / face protection.

Emergency Response

First aid	Fire-fighting measures
<ul style="list-style-type: none">• IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.• IF ON SKIN (or on the hair): Take off immediately all contaminated clothing. Wash skin with water / shower.• IF INHALED: Move to fresh air and keep at rest in a position comfortable for breathing.• IN CONTACT WITH EYES: Rinse cautiously with water for several minutes. If applicable, remove existing contact lenses, if possible. Continue rinsing.• Immediately call a POISON CENTER or physician.• Targeted treatment (see label).	<ul style="list-style-type: none">• Fire fighting measures based on the environment.• Special protective equipment for firefighting. Wear full protective suit.• Inappropriate extinguishing agents<ul style="list-style-type: none">○ Product itself does not burn.○ Attention: violent reaction with water (heat development)

Accidental Release Measures

- Security measures related to people
 - Wear protective equipment.
 - Keep out unprotected people.
- Environmental protection
 - Do not discharge into the drains or waterways.
- Procedure for cleaning / picking up
 - Take up mechanically.
 - Send in suitable containers for recovery or disposal. Use neutralizing agent.

Handling and storage

If caustic soda is left unsealed in the air, it will react with carbon dioxide to form sodium bicarbonate or sodium carbonate. Therefore, it is stored in hermetically sealed containers.

Safe handling advice

- Use and open container with care.
- Avoid dust formation.
- Supply eye wash bottle.

Advice on protection against fire and explosion

- No special actions required.

Requirements for storage rooms and containers

- Provide alkali-resistant flooring.
- Do not use light metal containers.

Hints for combined storage

- Do not store together with acids.
- Keep away from metals.

Further information on storage conditions

- Keep container tightly closed.
- Store in a dry place.
- Product is hygroscopic.

Storage class VCI: 8 Corrosive substances

Safety data sheet

- [Safety Data Sheet Caustic soda 98/99%](#). Detailed information of the manufacturer.

Electric Pallet Truck Alligator

Tour 3 Documentation System < IT documentation

next: Mathematical formula

A **pallet truck** is an industrial truck with or without electric drive. It can be used to transport transport pallets, lattice boxes and corresponding conveying aids on level surfaces. Another colloquially used name is> **ant**.

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Description

A pallet truck has two metal tines (fork) that can be pushed under the pallet. In front of the tines there are small, downwardly extendable load rollers, on the other side there are one or two steerable rollers. With the load and castors, the lifting tines can be adjusted parallel to the ground in height with a hydraulic lifting cylinder and a linkage. This way, the pallet can be raised for shipping. The handle is used for moving and steering, and in non-powered devices as a lever for a hydraulic pump, which feeds the lifting cylinder. On the handle or near the steering axle is the operating option for the hydraulic valve (lifting / driving / lowering). Electric pallet trucks follow the operator by means of further switching handles.



Electric pallet truck "Ant"

Safety regulations

- In Germany, an annual [UVV](#) test (according to the guidelines of the employers' liability insurance association) is mandatory for an electric pallet truck.
- A certificate of competence (driving license) for driving electric pallet trucks is not required if the pallet truck is controlled by a traveling driver, also called a pedestrian. In this case, according to the German Employers' Liability Insurance Ordinance § 7 (2) BGV D27, instruction of the driver in the handling of the lift truck is sufficient. The assignment of the driver does not have to be in writing in this case.^[1]



ISO7010 W014 Symbol

[File:Betriebsanweisung Batteriewechsel.pdf](#)

Instruction

- Instructions must always be given when a **new employee comes to a work area** and they are, therefore, also mandatory for apprentices, trainees, temporary staff or leasing staff. The instruction should alert the employee to possible hazards, communicate the correct handling of the equipment and the loads to be transported and teach him necessary precautions for his own safety and the safety of others. The instructions may be delegated by the employer, usually to the company supervisor. The supervisor can observe the employee after instructions have been given and intervene if necessary. Traffic routes, signage, charging stations or other relevant business units must be taught as part of the operational training. Each instruction must be documented in writing and signed by the instructed person.

Operating instructions

- [In German only: BA Wechseln und Anschließen von Batterien von Staplern](#)

References

1. [↑ Unfallverhütungsvorschrift Flurförderzeuge in der Fassung vom 1. Januar 1997](#)

Tour 3 [Documentation System](#) < [IT documentation](#)

next: [Mathematical formula](#)