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# List of S-phrases

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**S-phrases** are defined in Annex IV of European Union Directive 67/548/EEC: *Safety advice concerning dangerous substances and preparations*. The list was consolidated and republished in Directive 2001/59/EC <sup>[1]</sup>, where translations into other EU languages may be found. The list was subsequently updated and republished in Directive 2006/102/EC <sup>[2]</sup>, where translations to additional European languages were added.

These safety phrases are used internationally and not just in Europe, and there is an ongoing effort towards complete international harmonization. (*Note: missing S-number combinations indicate phrases that were deleted or replaced by another phrase.*)

- S1: Keep locked up
  - S2: Keep out of the reach of children
  - S3: Keep in a cool place
  - S4: Keep away from living quarters
  - S5: Keep contents under ... (*appropriate liquid to be specified by the manufacturer*)
  - S6: Keep under ... (*inert gas to be specified by the manufacturer*)
  - S7: Keep container tightly closed
  - S8: Keep container dry
  - S9: Keep container in a well-ventilated place
  - S10: Keep contents wet
  - S11: *not specified*
  - S12: Do not keep the container sealed
  - S13: Keep away from food, drink and animal foodstuffs
  - S14: Keep away from ... (*incompatible materials to be indicated by the manufacturer*)
  - S15: Keep away from heat
  - S16: Keep away from sources of ignition - No smoking
  - S17: Keep away from combustible material
  - S18: Handle and open container with care
  - S20: When using do not eat or drink
  - S21: When using do not smoke
  - S22: Do not breathe dust
  - S23: Do not breathe gas/fumes/vapour/spray (*appropriate wording to be specified by the manufacturer*)
  - S24: Avoid contact with skin
  - S25: Avoid contact with eyes
  - S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
  - S27: Take off immediately all contaminated clothing
  - S28: After contact with skin, wash immediately with plenty of ... (*to be specified by the manufacturer*)
  - S29: Do not empty into drains
  - S30: Never add water to this product
  - S33: Take precautionary measures against static discharges
  - S35: This material and its container must be disposed of in a safe way
  - S36: Wear suitable protective clothing
  - S37: Wear suitable gloves
  - S38: In case of insufficient ventilation wear suitable respiratory equipment
  - S39: Wear eye/face protection
  - S40: To clean the floor and all objects contaminated by this material use ... (*to be specified by the manufacturer*)
  - S41: In case of fire and/or explosion do not breathe fumes
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- S42: During fumigation/spraying wear suitable respiratory equipment (*appropriate wording to be specified by the manufacturer*)
- S43: In case of fire use ... (*indicate in the space the precise type of fire-fighting equipment. If water increases the risk add - Never use water*)
- S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)
- S46: If swallowed, seek medical advice immediately and show this container or label
- S47: Keep at temperature not exceeding ... °C (*to be specified by the manufacturer*)
- S48: Keep wet with ... (*appropriate material to be specified by the manufacturer*)
- S49: Keep only in the original container
- S50: Do not mix with ... (*to be specified by the manufacturer*)
- S51: Use only in well-ventilated areas
- S52: Not recommended for interior use on large surface areas
- S53: Avoid exposure - obtain special instructions before use
- S56: Dispose of this material and its container at hazardous or special waste collection point
- S57: Use appropriate containment to avoid environmental contamination
- S59: Refer to manufacturer/supplier for information on recovery/recycling
- S60: This material and its container must be disposed of as hazardous waste
- S61: Avoid release to the environment. Refer to special instructions/safety data sheet
- S62: If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label where possible
- S63: In case of accident by inhalation: remove casualty to fresh air and keep at rest
- S64: If swallowed, rinse mouth with water (only if the person is conscious)

## Combinations

- (S1/2): Keep locked up and out of the reach of children
- S3/7: Keep container tightly closed in a cool place
- S3/7/9: Keep container tightly closed in a cool, well-ventilated place
- S3/9/14: Keep in a cool, well-ventilated place away from ... (*incompatible materials to be indicated by the manufacturer*)
- S3/9/14/49: Keep only in the original container in a cool, well-ventilated place away from ... (*incompatible materials to be indicated by the manufacturer*)
- S3/9/49: Keep only in the original container in a cool, well-ventilated place
- S3/14: Keep in a cool place away from ... (*incompatible materials to be indicated by the manufacturer*)
- S7/8: Keep container tightly closed and dry
- S7/9: Keep container tightly closed and in a well-ventilated place
- S7/47: Keep container tightly closed and at temperature not exceeding ... °C (*to be specified by the manufacturer*)
- S8/10: Keep container wet, but keep the contents dry
- S20/21: When using do not eat, drink or smoke
- S24/25: Avoid contact with skin and eyes
- S27/28: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of ... (*to be specified by the manufacturer*)
- S29/35: Do not empty into drains; dispose of this material and its container in a safe way
- S29/56: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
- S36/37: Wear suitable protective clothing and gloves
- S36/37/39: Wear suitable protective clothing, gloves and eye/face protection
- S36/39: Wear suitable protective clothing and eye/face protection

- S37/39: Wear suitable gloves and eye/face protection
- S47/49: Keep only in the original container at temperature not exceeding ... °C (*to be specified by the manufacturer*)

## External links

- Chemical Risk & Safety Phrases in 23 European Languages <sup>[3]</sup>
- ChemBlink.com EC Safety Phrases <sup>[4]</sup>
- Directive 2006/102/EC of 20 November 2006, as published in Official Journal of the European Union L 363, 20 December 2006, pp. 241-343 <sup>[2]</sup>

## References

- [1] <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32001L0059:EN:HTML>
- [2] [http://eur-lex.europa.eu/LexUriServ/site/en/oj/2006/l\\_363/l\\_36320061220en02410343.pdf](http://eur-lex.europa.eu/LexUriServ/site/en/oj/2006/l_363/l_36320061220en02410343.pdf)
- [3] <http://schoolscout24.de/cgi-bin/rsp/rspinput.cgi>
- [4] <http://www.chemblink.com/codes/safety.pdf>
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# Article Sources and Contributors

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