# Hydroxyacetic acid butyl ester

| CAS number: | 7397-62-8 |
| --- | --- |
| Synonyms: | Butyl glycolate, glycolic acid n‐butylester |
| Chemical formula: | C6H12O3 |
| Structural formula: | — |

Workplace exposure standard (new)

| TWA: | **—** |
| --- | --- |
| STEL: | **—** |
| Peak limitation: | **—** |
| Notations: | **—** |
| IDLH: | **—** |
| **Sampling and analysis:** N/A | |

## Recommendation and basis for workplace exposure standard

A workplace exposure standard is not recommended as the available data is considered insufficient to support a health-based recommendation.

Investigation of additional data sources is recommended at the next scheduled review due to the incomplete dataset.

## Discussion and conclusions

Hydroxyacetic acid butyl ester is used as general adhesive and binding agent for a variety of uses. No primary agency assign a TWA, STEL or peak limitation.

Toxicological data are limited to animals. In rats, inhalation exposure at 3,000 mg/m3 led to severe irritation.A NOAEL of 200 mg/kg/d is reported in rats for kidney weight changes. This NOAEL was not considered suitable to derive a MAK value (DFG, 2006).

There is an insufficient weight of evidence to support any further recommendations. A review of additional data sources is recommended at the next scheduled review.

## Recommendation for notations

Not classified as a carcinogen according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Not classified as a skin sensitiser or respiratory sensitiser according to the GHS.

There are insufficient data to recommend a skin notation.

# Appendix

### Primary sources with reports

| Source Year set Standard |
| --- |
| SWA NA NA | |
| No report. |
| ACGIH NA NA |
| No report. |
| DFG 2006 Not assigned |
| Insufficient toxicological data to recommend a MAK.  Summary of data:  No human data.  Animal data:   * In rats, inhalation exposure to 3,000 mg/m3 lead to severe irritation of the nose, the development of necrosis and desquamation of the olfactory epithelium and to degeneration of the respiratory nasal epithelium * LD50>4,000 mg/kg * NOAEL of 200 mg/kg/d; rats, gavage, 28 d, kidney weight increase; elevated serum phosphate level and slightly decreased protein levels. |
| SCOEL NA NA |
| No report. |
| OARS/AIHA NA NA |
| No report. |
| HCOTN NA NA |
| No report. |

### Secondary source reports relied upon

NIL.

### Carcinogenicity — non-threshold based genotoxic carcinogens

| Is the chemical mutagenic? | Insufficient data |
| --- | --- |
| Is the chemical carcinogenic with a mutagenic mechanism of action? | Insufficient data |
| **Insufficient data are available to determine if the chemical is a non-threshold based genotoxic carcinogen.** |  |

## Notations

| Source | Notations |
| --- | --- |
| SWA | NA |
| HCIS | NA |
| NICNAS | NA |
| EU Annex | NA |
| ECHA | NA |
| ACGIH | NA |
| DFG | — |
| SCOEL | NA |
| HCOTN | NA |
| IARC | NA |
| US NIOSH | NA |

NA = not applicable (a recommendation has not been made by this Agency); — = the Agency has assessed available data for this chemical but has not recommended any notations

### Skin notation assessment

| Calculation |
| --- |
| Insufficient data to assign a skin notation |

### IDLH

| Is there a suitable IDLH value available? | No |
| --- | --- |

## Additional information

| Molecular weight: | 132.16 |
| --- | --- |
| Conversion factors at 25°C and 101.3 kPa: | 1 ppm = Number mg/m3; 1 mg/m3 = Number ppm |
| This chemical is used as a pesticide: |  |
| This chemical is a biological product: |  |
| This chemical is a by-product of a process: |  |
| A biological exposure index has been recommended by these agencies: | ACGIH  DFG  SCOEL |

## Workplace exposure standard history

| Year | Standard |
| --- | --- |
| Click here to enter year |  |

## References

Deutsche Forschungsgemeinschaft (DFG) (2006) Hydroxyessigsäurebutylester – MAK value documentation.