

PROPRANOLOL

CAS number: 525-66-6

Synonyms: 1-(naphthalen-1-yloxy)-3-[(propan-2-yl)amino]propan-2-ol

Chemical formula: $C_{16}H_{22}ClNO_2$

Structural formula: —

Workplace exposure standard (interim)

TWA: —

STEL: —

Peak limitation: —

Notations: —

IDLH: —

Sampling and analysis: NA

Recommendation and basis for workplace exposure standard

Insufficient data exists to perform a risk-based assessment and therefore, it is recommended that a priority review be undertaken at the next scheduled review of the WES.

Discussion and conclusions

Propranolol is a non-selective beta-blocker that is widely used in pharmaceuticals for hypertension, cardiac arrhythmias, angina pectoris and hyperthyroidism.

A TWA of 0.188 ppm (2 mg/m³) and a STEL of 0.565 ppm (6 mg/m³) for propranolol was added to the Hazardous Chemical Information System (HCIS) in 1991. No further information is available to determine the source of evidence or the critical effects.

The available data is considered insufficient to support a health-based recommendation. A broader review should be prioritised at the next scheduled review.

Recommendation for notations

The data in the primary and secondary sources is considered insufficient to support recommendation of 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	1991	TWA: 0.188 ppm (2 mg/m³); STEL: 0.565 ppm (6 mg/m³)
Based on HSE. No further information.		
ACGIH	NA	NA
No report.		
DFG	NA	NA
No report.		
SCOEL	NA	NA
No report.		
OARS/AIHA	NA	NA
No report.		
HCOTN	NA	NA
No report.		

Secondary source reports relied upon

Source	Year	Additional information
HSE	x	<ul style="list-style-type: none"> No data is available.

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	—
HCIS	NA
NICNAS	NA
EU Annex	NA
ECHA	NA
ACGIH	NA



Source	Notations
DFG	NA
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

Insufficient data to assign a skin notation.

IDLH

Is there a suitable IDLH value available? No

Additional information

Molecular weight:	259.34
Conversion factors at 25°C and 101.3 kPa:	1 ppm = Number mg/m ³ ; 1 mg/m ³ = Number ppm
This chemical is used as a pesticide:	<input type="checkbox"/>
This chemical is a biological product:	<input type="checkbox"/>
This chemical is a by-product of a process:	<input type="checkbox"/>
A biological exposure index has been recommended by these agencies:	<input type="checkbox"/> ACGIH <input type="checkbox"/> DFG <input type="checkbox"/> SCOEL

Workplace exposure standard history

Year	Standard
Click here to enter year	

References

NIL.