

# Substitute Material Assessment








## IPBT, IMPB

If chemicals are classified under the CLP Regulation as acute toxic or CMR or are listed as explosives precursors, the responsible scientific unit must assess whether they can be replaced with less hazardous substances. Every procurement of toxic substances, CMR substances, or explosives precursors must be justified.

Name of the Substance: .....

CAS number .....

GHS classification (please tick the appropriate):

Piktogramm	GHS02 	GHS03 	GHS05 	GHS06 	GHS07 	GHS08 	GHS09 
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Cross out non-applicable items: acute toxic / CMR substance / Precursor for explosives

Lab application(s) of the substance:

Substitution assessment result — justification for continued use

Reviewed by:

\_\_\_\_\_ name / signature, date

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### Appendix 1: Definitions

**Definition "Acute toxic":** GHS 06 H300/H310/H330  
H301/H311/H331

**Defintion CMR Substance:** GHS 08 H340/H341  
H350/H351  
H360/H361

#### **Precursors for explosives:**

List of explosives precursors applicable in Austria. Austria applies Regulation (EU) 2019/1148 directly therefore Annex I (restricted substances) and Annex II (reportable substances) are decisive.

#### Annex I — Restricted explosives precursors

Hydrogen peroxide: > 12% (w/w)

Nitromethane: > 16% (w/w)

Nitric acid: > 3% (w/w)

Potassium chlorate: > 40% (w/w)

Potassium perchlorate: > 40% (w/w)

Sodium chlorate: > 40% (w/w)

Sodium perchlorate: > 40% (w/w)

Ammonium nitrate: > 16% nitrogen from ammonium nitrate (equivalent to > approx. 45.7% ammonium nitrate), with exemptions for certain fertilizers

Annex II — Reportable explosives precursors (suspicious transactions, significant disappearances, and thefts must be reported)

Examples (not exhaustive; the full Annex II text is authoritative):

Acetone

Hexamine

Sulfuric acid

Hydrochloric acid

Potassium nitrate

Sodium nitrate

Calcium nitrate

Calcium ammonium nitrate