

# Safety data sheet

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BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 24.10.2022

Version: 3.0

Product: **Vitamin A-Propionate 2.5 Mio IU/G stabilized with BHT**

(ID no. 30041062/SDS\_GEN\_00/EN)

Date of print 11.10.2025

## 1. Identification

### Product identifier

## **Vitamin A-Propionate 2.5 Mio IU/G stabilized with BHT**

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: feed additive(s)

### Details of the supplier of the safety data sheet

#### Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Nutrition and Health

Telephone: +49 621 60-48434

E-mail address: EN-global-safety-data@basf.com

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

## 2. Hazards Identification

### Classification of the substance or mixture

According to UN GHS criteria

Acute Tox. 5 (oral)

Skin Corr./Irrit. 3

Repr. 1B (unborn child)

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Aquatic Acute 3  
Aquatic Chronic 3

For the classifications not written out in full in this section the full text can be found in section 16.

## Label elements

### Globally Harmonized System (GHS)

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H316	Causes mild skin irritation.
H303	May be harmful if swallowed.
H360	May damage the unborn child.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P273	Avoid release to the environment.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

Precautionary Statements (Response):

P308 + P313	IF exposed or concerned: Get medical attention.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical attention.

Precautionary Statements (Storage):

P405	Store locked up.
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Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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## Other hazards

### According to UN GHS criteria

When finely distributed, self-ignition is possible.

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### 3. Composition/Information on Ingredients

#### Substances

Not applicable

#### Mixtures

##### Chemical nature

Preparation based on: Retinyl propionate

stabilized with: 2,6-di-tert-Butyl-p-cresol

##### Hazardous ingredients (GHS)

According to UN GHS criteria

##### Retinyl propionate

Content (W/W): $\geq 75\%$ - $\leq 100\%$	Acute Tox. 5 (oral)
CAS Number: 7069-42-3	Skin Corr./Irrit. 3
EC-Number: 230-363-2	Repr. 1B (unborn child)
	Aquatic Chronic 4
	H316, H303, H360, H413

##### 2,6-di-tert-Butyl-p-cresol

Content (W/W): $\geq 1\%$ - $< 3\%$	Aquatic Acute 1
CAS Number: 128-37-0	Aquatic Chronic 1
EC-Number: 204-881-4	M-factor chronic: 1
	H400, H410

For the classifications not written out in full in this section the full text can be found in section 16.

### 4. First-Aid Measures

#### Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Immediately wash thoroughly with soap and water, seek medical attention.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

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On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

**Most important symptoms and effects, both acute and delayed**

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

**Indication of any immediate medical attention and special treatment needed**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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**5. Fire-Fighting Measures****Extinguishing media**

Suitable extinguishing media:

| water spray, foam, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

**Special hazards arising from the substance or mixture**

harmful vapours, carbon oxides

The substances/groups of substances mentioned can be released in case of fire. Evolution of fumes/fog.

**Advice for fire-fighters**

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Cool endangered containers with water-spray.

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**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures**

| Use personal protective clothing. Information regarding personal protective measures, see section 8. Ensure adequate ventilation. Do not breathe vapour/spray. Avoid contact with the skin, eyes and clothing.

**Environmental precautions**

Do not discharge into drains/surface waters/groundwater. Inform authorities in the event of product spillage to water courses or sewage systems.

**Methods and material for containment and cleaning up**

For small amounts: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust). After taking up material in containers, cover immediately with water layer. For large amounts: Dike spillage. Pump off product.

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Dispose of absorbed material in accordance with regulations. Soiled textiles / cleaning rags / adsorbents and Silica are capable of self ignition and should be wetted with water and must be disposed of in a safe manner.

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## 7. Handling and Storage

### Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Wear suitable protective clothing and eye/face protection. Avoid aerosol formation. Avoid contact with the skin, eyes and clothing. Keep container tightly sealed. Ensure that there is no crystallized product in the container before use. Processing machines must be fitted with local exhaust ventilation.

Protection against fire and explosion:

Risk of self-ignition when a large surface area is produced due to fine dispersion. Avoid all sources of ignition: heat, sparks, open flame. Take precautionary measures against static discharges. Soiled textiles / cleaning rags / adsorbents and Silica are capable of self ignition and should be wetted with water and must be disposed of in a safe manner.

### Conditions for safe storage, including any incompatibilities

Segregate from oxidants.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Protect from air. Protect from the effects of light. Keep under nitrogen.

### Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## 8. Exposure Controls/Personal Protection

### Control parameters

#### Components with occupational exposure limits

128-37-0: 2,6-di-tert-Butyl-p-cresol

### Exposure controls

#### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

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Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures

Females in early pregnancy must never be exposed to the substance. Under no circumstances should the product come into contact with the skin of pregnant women or be inhaled by them. Avoid contact with skin. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	liquid	
Colour:	yellow	
Odour:	nutty	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
pH value:	substance/mixture is non-soluble (in water)	
Melting point:	< 20 °C	
Boiling point:	The substance / product decomposes therefore not determined.	
Flash point:	161,0 °C	(ISO 2719)
Evaporation rate:	No data available.	
Flammability:	not readily ignited	
Lower explosion limit:	For liquids not relevant for classification and labelling.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	291 °C	(DIN EN 14522)
Vapour pressure:	< 1 hPa (20 °C)	
Density:	0,94 g/cm <sup>3</sup> (20 °C)	
Relative vapour density (air):	> 1	
Solubility in water:	Heavier than air. sparingly soluble	

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Solubility (qualitative) solvent(s): organic solvents  
soluble

Partitioning coefficient n-octanol/water (log Kow):  
not applicable for mixtures

Self ignition: Temperature: 291 °C

(Method: Directive 92/69/EEC,  
A.15)

Thermal decomposition:  $\geq 165$  °C (DSC (DIN 51007))

Viscosity, dynamic:  
No data available.

Viscosity, kinematic:  
No data available.

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

### Other information

Self heating ability: not applicable, the product is a liquid

SADT:  $> 75$  °C  
Heat accumulation / Dewar 500 ml (SADT, UN-Test H.4, 28.4.4)

Grain size distribution: The substance / product is marketed or used in a non solid or granular form.

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## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effects to metal are not anticipated.

Formation of flammable gases: Remarks: Forms no flammable gases in the presence of water.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

When finely distributed, self-ignition is possible.

### Conditions to avoid

| See SDS section 7 - Handling and storage.

### Incompatible materials

Substances to avoid:  
oxidizing agents

### Hazardous decomposition products

| Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:

| Of low toxicity after single ingestion.

*Information on: Retinyl propionate**Experimental/calculated data:**LD50 rat (oral): > 2.000 mg/kg (BASF-Test)**No mortality was observed.**Information on: 2,6-di-tert-Butyl-p-cresol**Experimental/calculated data:**LD50 rat (oral): > 5.000 mg/kg (OECD Guideline 401)*  
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#### Irritation

Assessment of irritating effects:

| Skin contact causes slight irritation. Not irritating to the eyes.

*Information on: Retinyl propionate**Assessment of irritating effects:**Skin contact causes irritation. Not irritating to the eyes.**Information on: 2,6-di-tert-Butyl-p-cresol**Assessment of irritating effects:**Not irritating to the skin. Not irritating to the eyes.*  
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#### Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

*Information on: Retinyl propionate**Experimental/calculated data:**Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)**Information on: 2,6-di-tert-Butyl-p-cresol**Experimental/calculated data:**Guinea pig maximization test guinea pig: Non-sensitizing. (similar to OECD guideline 406)*  
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#### Germ cell mutagenicity

Assessment of mutagenicity:

Based on available data, the classification criteria are not met.



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*Information on: Retinyl propionate**Assessment of mutagenicity:**In the majority of tests performed (bacteria/microorganisms/cell cultures) a mutagenic effect was not found. A mutagenic effect was also not observed in in-vivo assays. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*  
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#### Carcinogenicity

*Assessment of carcinogenicity:**Based on available data, the classification criteria are not met.**Information on: Retinyl propionate**Assessment of carcinogenicity:**No reliable data was available concerning carcinogenic activity.**Information on: 2,6-di-tert-Butyl-p-cresol**Assessment of carcinogenicity:**The whole of the information assessable provides no indication of a carcinogenic effect.*  
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#### Reproductive toxicity

*Assessment of reproduction toxicity:**The substance caused malformations/developmental toxicity in laboratory animals.*

#### Developmental toxicity

*Assessment of teratogenicity:**The substance caused malformations/developmental toxicity in laboratory animals. May cause harm to the unborn child.**Information on: Retinyl propionate**Assessment of teratogenicity:**May cause harm to the unborn child. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*  
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#### Specific target organ toxicity (single exposure)

*Assessment of STOT single:**Based on available data, the classification criteria are not met.*

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

*Assessment of repeated dose toxicity:**Repeated exposure to large quantities may affect certain organs.**Information on: Retinyl propionate**Assessment of repeated dose toxicity:**Repeated exposure to large quantities may affect certain organs.**Information on: 2,6-di-tert-Butyl-p-cresol**Assessment of repeated dose toxicity:*

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*The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies.*

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#### Aspiration hazard

No data available.

#### Other relevant toxicity information

The product has not been tested. The statement has been derived from the properties of the individual components.

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## 12. Ecological Information

### Toxicity

Assessment of aquatic toxicity:

Harmful to aquatic life with long lasting effects.

*Information on: 2,6-di-tert-Butyl-p-cresol*

*Toxicity to fish:*

*LC0 (96 h)  $\geq$  0,57 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, semistatic)*

*The statement of the toxic effect relates to the analytically determined concentration. Limit concentration test only (LIMIT test).*

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*Information on: 2,6-di-tert-Butyl-p-cresol*

*Aquatic invertebrates:*

*EC0 (48 h) 0,48 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)*

*The statement of the toxic effect relates to the analytically determined concentration.*

*Information on: Retinyl propionate*

*Aquatic invertebrates:*

*EC50 (48 h)  $>$  100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)*

*The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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*Information on: 2,6-di-tert-Butyl-p-cresol*

*Aquatic plants:*

*EC50 (72 h)  $>$  0,40 mg/l (growth rate), Scenedesmus subspicatus (Guideline 92/69/EEC, C.3, static)*

*The statement of the toxic effect relates to the analytically determined concentration.*

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*Information on: 2,6-di-tert-Butyl-p-cresol*

*Microorganisms/Effect on activated sludge:*

*EC0 (3 h) 1.000 mg/l, activated sludge (DIN EN ISO 8192-OECD 209-88/302/EEC,P. C, aerobic)*

*Information on: Retinyl propionate*

*Microorganisms/Effect on activated sludge:*

*EC20 (3 h)  $>$  1.000 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)*

*The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.*

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*Information on: 2,6-di-tert-Butyl-p-cresol*

*Chronic toxicity to aquatic invertebrates:**No observed effect concentration (21 d) 0,316 mg/l, Daphnia magna (OECD Guideline 202, part 2, semistatic)**The details of the toxic effect relate to the nominal concentration.*  
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Assessment of terrestrial toxicity:

No data available.

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

Not readily biodegradable (by OECD criteria). Poorly biodegradable.

*Information on: Retinyl propionate**Assessment biodegradation and elimination (H<sub>2</sub>O):**Moderately/partially biodegradable. Not readily biodegradable (by OECD criteria).**Not readily biodegradable (by OECD criteria). Moderately/partially biodegradable.**Information on: 2,6-di-tert-Butyl-p-cresol**Assessment biodegradation and elimination (H<sub>2</sub>O):**Not readily biodegradable (by OECD criteria). Poorly biodegradable.*  
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### **Bioaccumulative potential**

Assessment bioaccumulation potential:

The product contains components with potential for bioaccumulation

*Information on: Retinyl propionate**Assessment bioaccumulation potential:**Significant accumulation in organisms is not to be expected.**Information on: 2,6-di-tert-Butyl-p-cresol**Assessment bioaccumulation potential:**May be accumulated in organisms.*  
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### **Mobility in soil**

Assessment transport between environmental compartments:

Adsorption in soil: Adsorption to solid soil phase is expected.

*Information on: Retinyl propionate**Assessment transport between environmental compartments:**Volatility: No data available.**Adsorption in soil: Adsorption to solid soil phase is expected.**Information on: 2,6-di-tert-Butyl-p-cresol**Assessment transport between environmental compartments:**Volatility: The substance will not evaporate into the atmosphere from the water surface.**Adsorption in soil: Adsorption to solid soil phase is expected.*

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### Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### Additional information

Add. remarks environm. fate & pathway:

The product has not been tested. The statements on environmental fate and pathway have been derived from the properties of the individual components.

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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## 13. Disposal Considerations

### Waste treatment methods

Observe national and local legal requirements.

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## 14. Transport Information

### Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Inland waterway transport

ADN

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UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Transport in inland waterway vessel

Not evaluated

**Sea transport**

## IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

**Air transport**

## IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

**Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

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**15. Regulatory Information****Safety, health and environmental regulations/legislation specific for the substance or mixture**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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## 16. Other Information

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Repr.	Reproductive toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
H316	Causes mild skin irritation.
H303	May be harmful if swallowed.
H360	May damage the unborn child.
H413	May cause long lasting harmful effects to aquatic life.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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Vertical lines in the left hand margin indicate an amendment from the previous version.