

# Safety data sheet

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

Date / Revised: 06.08.2021

Version: 1.0

Product: **Amdro Cockroach Gel**

(ID no. 30269350/SDS\_GEN\_00/EN)

Date of print 27.02.2024

## 1. Identification

### Product identifier

## Amdro Cockroach Gel

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

Relevant identified uses: insecticide

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

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Crop Protection

Telephone: +49 621 60-27777

E-mail address: Produktinformation-Pflanzenschutz@basf.com

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## 2. Hazards Identification

### Classification of the substance or mixture

According to UN GHS criteria

Repr. 1B (fertility)

STOT RE 2

Aquatic Acute 1

Aquatic Chronic 1

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:

H373	May cause damage to organs through prolonged or repeated exposure.
H360	May damage fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statement:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Precautionary Statements (Prevention):

P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P260	Do not breathe dust.
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.
P391	Collect spillage.

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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According to UN GHS criteria

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Hazard determining component(s) for labelling: 5,5-dimethyl-perhydro-pyrimidin-2-one  $\alpha$ -(4-trifluoromethylstyryl)- $\alpha$ -(4-trifluoromethyl)cinnamylidenehydrazone

### Other hazards

According to UN GHS criteria

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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## 3. Composition/Information on Ingredients

### Substances

Not applicable

### Mixtures

Chemical nature

Bait, insecticide, Biocidal product

Hazardous ingredients (GHS)

According to UN GHS criteria

5,5-dimethyl-perhydro-pyrimidin-2-one  $\alpha$ -(4-trifluoromethylstyryl)- $\alpha$ -(4-trifluoromethyl)cinnamylidenehydrazone

Content (W/W): 2 %

CAS Number: 67485-29-4

EC-Number: 405-090-9

INDEX-Number: 613-181-00-1

Eye Dam./Irrit. 2A

Acute Tox. 4 (oral)

Acute Tox. 4 (Inhalation - dust)

Repr. 1B (fertility)

STOT RE 1

Aquatic Acute 1

Aquatic Chronic 1

M-factor chronic: 1000

H319, H360, H372, H302 + H332, H400, H410

Propane-1,2-diol

Content (W/W): < 15 %

CAS Number: 57-55-6

EC-Number: 200-338-0

Oleic acid

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Content (W/W): < 5 %  
CAS Number: 112-80-1  
EC-Number: 204-007-1

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

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## 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.

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:  
dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:  
carbon dioxide, water jet

### Special hazards arising from the substance or mixture

Carbon monoxide, Hydrogen fluoride, Carbon dioxide, nitrogen oxides, halogenated compounds, silica compounds

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

### **Advice for fire-fighters**

Special protective equipment:

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

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. 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.

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## **6. Accidental Release Measures**

### **Personal precautions, protective equipment and emergency procedures**

Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Avoid dust formation.

### **Environmental precautions**

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Collect waste in suitable containers, which can be labeled and sealed. Dispose of absorbed material in accordance with regulations. Avoid raising dust. Wear suitable protective equipment.

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## **7. Handling and Storage**

### **Precautions for safe handling**

Ensure thorough ventilation of stores and work areas. No special measures necessary if stored and handled correctly. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Avoid dust formation. Dust can form an explosive mixture with air.

### **Conditions for safe storage, including any incompatibilities**

Segregate from foods and animal feeds.

Further information on storage conditions: Protect against moisture. Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

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Keep container dry.  
The stated storage temperature should be noted.

Protect from temperatures below: 0 °C  
Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.  
Protect from temperatures above: 40 °C  
Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

### **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

57-55-6: Propane-1,2-diol  
112-80-1: Oleic acid

### **Exposure controls**

#### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with high efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P3 or FFP3).

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.

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

Wearing of closed work clothing is recommended. Handle in accordance with good industrial hygiene and safety practice. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	solid
Colour:	yellow to brown
Odour:	faint odour, aromatic
Odour threshold:	
	Not determined due to potential health hazard by inhalation.
pH value:	approx. 3 - 5 (20 °C) (measured with the undiluted substance)
Melting point:	approx. 0 °C Information applies to the solvent.
Boiling point:	approx. 100 °C (1.013 hPa) Information applies to the solvent.
Flash point:	
	not applicable, the product is a solid
Evaporation rate:	
	not applicable
Flammability:	not flammable
Lower explosion limit:	
	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	
	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Vapour pressure:	approx. 10 mmHg (21 °C)
Density:	approx. 1,10 g/cm <sup>3</sup> (20 °C)
Relative vapour density (air):	
	not applicable
Solubility in water:	soluble
Partitioning coefficient n-octanol/water (log Kow):	
	not applicable

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Self ignition: Based on the water content the product does not ignite.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, dynamic:

not applicable, the product is a solid

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

### Other information

Self heating ability: Not tested on account of the low melting-point.

Bulk density: approx. 1,10 g/cm<sup>3</sup>

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## 10. Stability and Reactivity

### Reactivity

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

### Chemical stability

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

### Possibility of hazardous reactions

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

### Conditions to avoid

See SDS section 7 - Handling and storage.

### Incompatible materials

Substances to avoid:

strong bases, strong acids, strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

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## 11. Toxicological Information

### Information on toxicological effects

Acute toxicity



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Assessment of acute toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data:

LD50 rat (oral): > 5.000 mg/kg (OECD Guideline 401)

No mortality was observed.

LD50 rat (dermal): > 4.000 mg/kg (OECD Guideline 402)

No mortality was observed.

*Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one  $\alpha$ -(4-trifluoromethylstyryl)- $\alpha$ -(4-trifluoromethyl)cinnamylidenehydrazone*

*Experimental/calculated data:*

*LC50 rat (by inhalation): 2,9 mg/l 4 h (OECD Guideline 403)*

*Tested as dust aerosol.*

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Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

Buehler test guinea pig: Non-sensitizing. (OECD Guideline 406)

Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

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### Reproductive toxicity

Assessment of reproduction toxicity:

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

*Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one  $\alpha$ -(4-trifluoromethylstyryl)- $\alpha$ -(4-trifluoromethyl)cinnamylidenehydrazone*

*Assessment of reproduction toxicity:*

*Causes impairment of fertility in laboratory animals.*

### Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

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

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

Assessment of repeated dose toxicity:

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

*Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one  $\alpha$ -(4-trifluoromethylstyryl)- $\alpha$ -(4-trifluoromethyl)cinnamylidenehydrazone*

*Assessment of repeated dose toxicity:*

*Repeated oral exposure to small quantities may affect certain organs.*

### Aspiration hazard

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

No aspiration hazard expected.

### Other relevant toxicity information

Misuse can be harmful to health.

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## 12. Ecological Information

### Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

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

*Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one  $\alpha$ -(4-trifluoromethylstyryl)- $\alpha$ -(4-trifluoromethyl)cinnamylidenehydrazone*

*Toxicity to fish:*

*LC50 (96 h) 0,09 mg/l, Ictalurus punctatus, syn: I. robustus (static)*  
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*Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one  $\alpha$ -(4-trifluoromethylstyryl)- $\alpha$ -(4-trifluoromethyl)cinnamylidenehydrazone*

*Aquatic invertebrates:*

*EC50 (96 h) 0,0544 mg/l, Americamysis bahia*  
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*Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one  $\alpha$ -(4-trifluoromethylstyryl)- $\alpha$ -(4-trifluoromethyl)cinnamylidenehydrazone*

*Aquatic plants:*

*EC50 (72 h) 0,01112 mg/l, Pseudokirchneriella subcapitata*

*EC10 (72 h) 0,00481 mg/l, Pseudokirchneriella subcapitata*  
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*Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one  $\alpha$ -(4-trifluoromethylstyryl)- $\alpha$ -(4-trifluoromethyl)cinnamylidenehydrazone*

*Chronic toxicity to aquatic invertebrates:*

*No observed effect concentration (21 d) 0,00088 mg/l, Daphnia magna*  
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### Persistence and degradability

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

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

*Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one  $\alpha$ -(4-trifluoromethylstyryl)- $\alpha$ -(4-trifluoromethyl)cinnamylidenehydrazone*

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

*Not readily biodegradable (by OECD criteria).*  
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### Bioaccumulative potential

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Assessment bioaccumulation potential:

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

*Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one  $\alpha$ -(4-trifluoromethylstyryl)- $\alpha$ -(4-trifluoromethyl)cinnamylidenehydrazone*

*Bioaccumulation potential:*

*Bioconcentration factor: 95, Gambusia affinis (measured)*

*Does not accumulate in organisms.*

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### **Mobility in soil**

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one  $\alpha$ -(4-trifluoromethylstyryl)- $\alpha$ -(4-trifluoromethyl)cinnamylidenehydrazone*

*Assessment transport between environmental compartments:*

*Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*

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### **Results of PBT and vPvB assessment**

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### **Other adverse effects**

The product does not contain substances that are listed in the Montreal Protocol on substances that deplete the ozone layer.

### **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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## **13. Disposal Considerations**

### **Waste treatment methods**

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## 14. Transport Information

### Land transport

ADR

UN number UN3077  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains HYDRAMETHYLNON)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

RID

UN number UN3077  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains HYDRAMETHYLNON)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

### Inland waterway transport

ADN

UN number UN3077  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains HYDRAMETHYLNON)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

### Sea transport

IMDG

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UN number: UN 3077  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains HYDRAMETHYLNON)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Marine pollutant: YES  
Special precautions for user: None known

### **Air transport**

IATA/ICAO

UN number: UN 3077  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains HYDRAMETHYLNON)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

### **Transport in bulk according to Annex II of MARPOL and the IBC Code**

Regulation: Not evaluated  
Shipment approved: Not evaluated  
Pollution name: Not evaluated  
Pollution category: Not evaluated  
Ship Type: Not evaluated

### **Further information**

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 kg or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2:10.2.7; IATA: A197; TDS: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3 Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

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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

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

Repr.	Reproductive toxicity
STOT RE	Specific target organ toxicity — repeated exposure
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Eye Dam./Irrit.	Serious eye damage/eye irritation
Acute Tox.	Acute toxicity
H319	Causes serious eye irritation.
H360	May damage fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H302 + H332	Harmful if swallowed or if inhaled
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.