

# Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 04.07.2017 Version: 9.0

Product: Orvego SC

(ID no. 30646735/SDS\_CPA\_EU/EN)

Date of print 23.01.2018

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

# **Orvego SC**

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

Relevant identified uses: crop protection product, fungicide

# 1.3. 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

# 1.4. Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

#### **SECTION 2: Hazards Identification**

#### 2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral) Aquatic Chronic 1

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H302, H410, EUH401

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

#### 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

#### Pictogram:



# Signal Word: Warning

Hazard Statement:

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

EUH401 To avoid risks to human health and the environment, comply with the

instructions for use.

Precautionary Statement:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

Precautionary Statements (Prevention):

P270 Do not eat, drink or smoke when using this product.
P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you

feel unwell.

P330 Rinse mouth. P391 Collect spillage.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection

point.

Labeling of special preparations (GHS):

EUH208: May produce an allergic reaction. Contains: 1,2-BENZISOTHIAZOL-3(2H)-ONE

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: AMETOCTRADIN, DIMETHOMORPH

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#### 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

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.

# **SECTION 3: Composition/Information on Ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

#### Chemical nature

crop protection product, fungicide, suspension concentrate (SC)

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

ametoctradine (ISO); 5-ethyl-6-octyl[1,2,4]triazolo[1,5-α]pyrimidin-7-amine

Content (W/W): 26.9 % Aquatic Chronic 1

CAS Number: 865318-97-4 H410

dimethomorph (ISO); 4-(3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)acryloyl)morpholine

Content (W/W): 20.3 % Aquatic Chronic 2

CAS Number: 110488-70-5 H411

EC-Number: 404-200-2 INDEX-Number: 613-102-00-0

phenolsulfonic acid-formaldehyde-polycondensate as sodium salt

Content (W/W): < 5 % Eye Dam./Irrit. 2 Aquatic Chronic 3

H319, H412 EUH208

Propane-1,2-diol

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Content (W/W): < 20 % CAS Number: 57-55-6 EC-Number: 200-338-0

REACH registration number: 01-

2119456809-23

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

#### **SECTION 4: First-Aid Measures**

### 4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

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

On skin contact:

Wash thoroughly with soap and water.

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.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

#### 4.3. Indication of any immediate medical attention and special treatment needed

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

# **SECTION 5: Fire-Fighting Measures**

#### 5.1. Extinguishing media

Suitable extinguishing media: water spray, carbon dioxide, foam, dry powder

#### 5.2. Special hazards arising from the substance or mixture

carbon monoxide, Carbon dioxide, nitrogen oxides, organochloric compounds The substances/groups of substances mentioned can be released in case of fire.

# 5.3. Advice for fire-fighters

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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.

#### **SECTION 6: Accidental Release Measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

#### 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

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

#### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

# **SECTION 7: Handling and Storage**

#### 7.1. Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. 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:

The substance/product is non-combustible. Product is not explosive. No special precautions necessary.

#### 7.2. Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

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

Storage stability:

Storage duration: 36 Months

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Protect from temperatures below: -5 °C

The product can crystallize below the limit temperature.

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.

#### 7.3. 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.

# **SECTION 8: Exposure Controls/Personal Protection**

#### 8.1. Control parameters

Components with occupational exposure limits

57-55-6: Propane-1,2-diol

#### 8.2. Exposure controls

#### Personal protective equipment

# Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

#### Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): 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

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

#### Environmental exposure controls

For information regarding environmental exposure controls, see Section 6.

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# **SECTION 9: Physical and Chemical Properties**

#### 9.1. Information on basic physical and chemical properties

Form: suspension Colour: white

Odour: faintly aromatic

Odour threshold:

Not determined due to potential

health hazard by inhalation.

pH value: approx. 6 - 8 (other)

(CIPAC standard water D, 1 %(m),

20 °C)

approx. -6.2 °C Freezing point: Boiling point: approx. 100 °C

(1,013 hPa)

Flash point: (Directive 92/69/EEC, A.9) No flash point - Measurement made

up to the boiling point.

Evaporation rate:

not applicable

Flammability: not applicable

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.

463 °C Ignition temperature:

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

Vapour pressure:

The product has not been tested.

Density: approx. 1.11 g/cm3 (OECD Guideline 109)

(approx. 20 °C)

Relative vapour density (air):

not applicable

Solubility in water: dispersible

Partitioning coefficient n-octanol/water (log Kow):

Information based on the main

components.

Information on: dimethomorph (ISO); 4-(3-(4-chlorophenyl)-3-(3,4-

dimethoxyphenyl)acryloyl)morpholine

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Partitioning coefficient n-octanol/water (log Kow): 2.63 - 2.73

(20 °C)

Thermal decomposition: 220 °C, 20 kJ/kg, (DSC (OECD 113))

285 °C, 340 kJ/kg, (DSC (OECD 113))

Not a substance liable to self-decomposition according to UN transport

regulations, class 4.1.

Viscosity, dynamic: approx. 81 mPa.s (OECD 114)

(20 °C, 100 1/s)

Explosion hazard: Based on the chemical structure

there is no indicating of explosive

properties.

Fire promoting properties: not fire-propagating (Directive 2004/73/EC, A.21)

#### 9.2. Other information

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

# **SECTION 10: Stability and Reactivity**

### 10.1. Reactivity

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

#### 10.2. Chemical stability

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

# 10.3. Possibility of hazardous reactions

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

#### 10.4. Conditions to avoid

See MSDS section 7 - Handling and storage.

#### 10.5. Incompatible materials

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

# 10.6. Hazardous decomposition products

Hazardous decomposition products:

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

#### **SECTION 11: Toxicological Information**

# 11.1. Information on toxicological effects

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#### Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data:

LD50 rat (oral): > 500 - < 2,000 mg/kg (OECD Guideline 423)

LC50 rat (by inhalation): > 5.1 mg/l 4 h (OECD Guideline 403) An aerosol was tested.

LD50 rat (dermal): > 5,000 mg/kg (OECD Guideline 402)

#### **Irritation**

Assessment of irritating effects:

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

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: Skin sensitizing effects were not observed in animal studies. (OECD Guideline 406)

Mouse Local Lymph Node Assay (LLNA) mouse: Skin sensitizing effects were not observed in animal studies. (OECD Guideline 429)

# 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.

#### Reproductive toxicity

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#### Assessment of reproduction toxicity:

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

#### **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. No substance-specific organioxicity was observed after repeated administration to animals.

#### **Aspiration hazard**

No aspiration hazard expected.

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

#### Other relevant toxicity information

Misuse can be harmful to health.

# **SECTION 12: Ecological Information**

#### 12.1. Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

# Toxicity to fish:

LC50 (96 h) 23.2 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 92/69/EEC, C.1, static)

#### Aquatic invertebrates:

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

Aquatic plants:

EC50 (72 h) 74.2 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201)

Information on: dimethomorph (ISO); 4-(3-(4-chlorophenyl)-3-(3,4-

dimethoxyphenyl)acryloyl)morpholine

Chronic toxicity to fish:

No observed effect concentration (60 d) 0.0562 mg/l, Oncorhynchus mykiss

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Information on: ametoctradine (ISO); 5-ethyl-6-octyl[1,2,4]triazolo[1,5-α]pyrimidin-7-amine Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 0.044 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

Information on: dimethomorph (ISO); 4-(3-(4-chlorophenyl)-3-(3,4-

dimethoxyphenyl)acryloyl)morpholine

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 0.22 mg/l, Daphnia magna

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#### 12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O):

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

Information on: ametoctradine (ISO); 5-ethyl-6-octyl[1,2,4]triazolo[1,5-α]pyrimidin-7-amine Assessment biodegradation and elimination (H2O):

According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

Information on: dimethomorph (ISO); 4-(3-(4-chlorophenyl)-3-(3,4-

dimethoxyphenyl)acryloyl)morpholine

Assessment biodegradation and elimination (H2O):

Not readily biodegradable (by OECD criteria).

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#### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

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

Information on: ametoctradine (ISO); 5-ethyl-6-octyl[1,2,4]triazolo[1,5-α]pyrimidin-7-amine

Bioaccumulation potential:

Bioconcentration factor: 197 - 202, Lepomis macrochirus

Accumulation in organisms is not to be expected.

Information on: dimethomorph (ISO); 4-(3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)acryloyl)morpholine

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Bioaccumulation potential:

No significant accumulation in organisms is expected as a result of the distribution coefficient of noctanol/water (log Pow).

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# 12.4. 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: ametoctradine (ISO); 5-ethyl-6-octyl[1,2,4]triazolo[1,5-α]pyrimidin-7-amine 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.

Information on: dimethomorph (ISO); 4-(3-(4-chlorophenyl)-3-(3,4-

dimethoxyphenyl)acryloyl)morpholine

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

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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#### 12.5. 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.

#### 12.6. Other adverse effects

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

#### 12.7. Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

# **SECTION 13: Disposal Considerations**

#### 13.1. Waste treatment methods

Must be sent to a suitable incineration plant, observing 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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# **SECTION 14: Transport Information**

#### **Land transport**

**ADR** 

UN number UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains AMETOCTRADIN, DIMETHOMORPH)

Transport hazard class(es): 9, EHSM

Packing group:

Environmental hazards: yes

Special precautions for

user:

**RID** 

UN number UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains AMETOCTRADIN, DIMETHOMORPH)

Transport hazard class(es): 9, EHSM

Packing group: III
Environmental hazards: yes

Special precautions for

user:

None known

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# **Inland waterway transport**

ADN

UN number UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains AMETOCTRADIN, DIMETHOMORPH)

Transport hazard class(es): 9, EHSM

Packing group: III Environmental hazards: yes

Special precautions for None known

user:

Transport in inland waterway vessel

Not evaluated

# Sea transport

**IMDG** 

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UN number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains AMETOCTRADIN, DIMETHOMORPH)

Transport hazard class(es): 9, EHSM

Packing group:

Environmental hazards: yes

Marine pollutant: YES

Special precautions for

None known

#### Air transport

#### IATA/ICAO

user:

UN number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains AMETOCTRADIN, DIMETHOMORPH)

Transport hazard class(es): 9, EHSM

Packing group: III Environmental hazards: yes

Special precautions for None known

user:

#### 14.1. **UN** number

See corresponding entries for "UN number" for the respective regulations in the tables above.

#### 14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

# 14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### 14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### 14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### 14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

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

Regulation: Not evaluated

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

# **SECTION 15: Regulatory Information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3 Restrictions of Regulation (EC) No 1907/2006, Annex XVII, do not apply for the intended use(s) of the product given in this MSDS.

To avoid risks to man and the environment, comply with the instructions for use.

### 15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

#### **SECTION 16: Other Information**

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned

in section 2 or 3:

Acute Tox. Acute toxicity

Aquatic Chronic Hazardous to the aquatic environment - chronic

Eye Dam./Irrit. Serious eye damage/eye irritation

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

EUH401 To avoid risks to human health and the environment, comply with the

instructions for use.

H411 Toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects. EUH208 May produce an allergic reaction. Contains:

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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