

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078377766

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078378220



## SAFETY DATA SHEET

122000008518

**PATRIOT™INSECTICIDE CATTLE EAR TAG**

Version 1.1

Revision Date 02/14/2013

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product information** PATRIOT CATTLE EAR TAG 20/BOX

**Product Name:** PATRIOT™INSECTICIDE CATTLE EAR TAG  
**MSDS Number:** 122000008518

**Company**

BAYER HEALTHCARE LLC  
Animal Health Division  
12707 Shawnee Mission Parkway  
(West 63rd)  
Shawnee, KS 66216-1846  
USA  
(800) 633-3796

**In case of emergency:** (800) 422-9874  
Chemtrec: (800) 424-9300  
BAYER INFORMATION PHONE:(800) 633-3796  
INTERNATIONAL:(703) 527-3887

**2. HAZARDS IDENTIFICATION****Emergency Overview**

**WARNING! Colour:** orange **Form:** solid **Odour:** stinging, sulphurous.  
May be fatal if absorbed through skin. May cause eye irritation. Harmful if swallowed.

**Hazard Communication (29CFR 1910.1200)**

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Weight percent	Components	CAS-No.
40%	Diazinon	333-41-5

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**4. FIRST AID MEASURES**

**General advice:** Take off all contaminated clothing immediately.

**If inhaled:** Remove to fresh air. If symptoms persist, call a physician.

**In case of skin contact:** After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

**In case of eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**If swallowed:** If swallowed, seek medical advice immediately and show this container or label.

**Note to Physician:** This product is a cholinesterase inhibitor. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. Product may cause aspiration pneumonia. Probable mucosal damage may contraindicate the use of gastric lavage.

**Contact Number:** Use the Bayer Emergency Number in Section 1

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**5. FIREFIGHTING MEASURES**

**Suitable extinguishing media:** Any

**Specific hazards during firefighting:** Fire may cause evolution of: Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

**Further information:** Prevent fire extinguishing water from contaminating surface water or the ground water system.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Use personal protective equipment.

**Methods for cleaning up:** Loose tags (unused or spent) should be collected and stored in a closed container for future use or for disposal.

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**7. HANDLING AND STORAGE****Handling:**

Avoid dust formation. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Hand protection:**

Chemically resistant gloves.

**Eye protection:**

Safety glasses

**Other protective measures:**

Wear suitable protective equipment.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Colour:	orange
Odour:	stinging sulphurous
Density:	1.17 g/cm <sup>3</sup> at 68 °F (20 °C)

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**10. STABILITY AND REACTIVITY**

**Conditions to avoid:** no data available

**Materials to avoid:** Oxidizing agents

**Hazardous reactions:** None known.

**Thermal decomposition:**

no data available

**Hazardous decomposition products:**

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

**Oxidizing properties:**

No statements available.

**Impact Sensitivity:**

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no data available

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**11. TOXICOLOGICAL INFORMATION****Acute oral toxicity:**

Diazinon

LD50 rat: 66 mg/kg

**Acute inhalation toxicity:**

LC50 rat: &gt; 2.33 mg/l

Data on active ingredient

**Acute dermal toxicity:**

LD50 rabbit: &gt; 2,000 mg/kg

Data on active ingredient

**Skin irritation:**

rabbit

Result: Slightly irritating

**Eye irritation:**

rabbit

Result: Mild eye irritation

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**12. ECOLOGICAL INFORMATION****General advice:**

Do not allow to enter surface waters or groundwater.

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**13. DISPOSAL CONSIDERATIONS**

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

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**14. TRANSPORT INFORMATION****Land transport (CFR)****Non-Regulated****Sea transport (IMDG)****Non-Regulated**

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Air transport (ICAO / IATA cargo aircraft only)  
Non-Regulated

Air transport (ICAO / IATA passenger and cargo aircraft)  
Non-Regulated

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**15. REGULATORY INFORMATION**

**Other regulations:** No statements available.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**

**Components**

None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

**Components**

Diazinon

**US. EPA CERCLA Hazardous Substances (40 CFR 302)Components**

Diazinon

Reportable quantity: 1 lbs

**Marine Pollutant Components**

Diazinon

Severe marine pollutant.

**Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists**

**Weight percent****Components****CAS-No.**

30 - 60%

Diazinon

333-41-5

**New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists**

**Weight percent****Components****CAS-No.**

30 - 60%

Diazinon

333-41-5

**California Prop. 65**

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

**OSHA Hazcom Standard Rating**

Hazardous

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**16. OTHER INFORMATION****Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



# SAFETY DATA SHEET

## PATRIOT™ INSECTICIDE CATTLE EAR TAG

Version 1.2

Revision Date 08/14/2017

122000008518  
Print Date 08/15/2017

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product information

**Product Name:** PATRIOT™ INSECTICIDE CATTLE EAR TAG  
**SDS Number:** 122000008518

**Use** : Pesticide

#### Company

Bayer HealthCare, LLC  
Animal Health Division  
12707 Shawnee Mission Parkway  
(West 63rd)  
Shawnee, KS 66216-1846  
UNITED STATES OF AMERICA  
(800) 633-3796

**In case of emergency:** (800) 422-9874  
Chemtrec: (800) 424-9300  
BAYER INFORMATION PHONE: (800) 633-3796  
INTERNATIONAL: (703) 527-3887

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

#### Classification according to national GHS implementation:

Acute toxicity, Oral, Category 4 (H302)

#### Label elements

#### Labelling according to national GHS implementation:



Warning

#### Hazard statements:

H302 Harmful if swallowed.

#### Precautionary statements:

Prevention:

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.





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#### Hazardous components which must be listed on the label:

Components:	CAS-No.
Diazinon	333-41-5

#### Other hazards

Other hazards which do not result in classification:  
None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

#### Hazardous components

##### Diazinon

Concentration [Weight percent] 40.0026

CAS-No.: 333-41-5

CAS name: Phosphorothioic acid, O,O-diethyl O-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl] ester

#### GHS Classification:



Acute Tox. 4 H302

##### Titanium dioxide

Concentration [Weight percent] 0.5

CAS-No.: 13463-67-7

CAS name: Titanium oxide (TiO<sub>2</sub>)

##### Tinuvin P

Concentration [Weight percent] 0.5

CAS-No.: 2440-22-4

CAS name: Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-

#### GHS Classification:



Acute Tox. 3 H331

#### contains

##### PVC - powder (polymer) / PVC - compound

Concentration [Weight percent] 5.73

CAS-No.: 9002-86-2

CAS name: Ethene, chloro-, homopolymer

For the full text of the H-Statements mentioned in this Section, see Section 16.



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#### 4. FIRST AID MEASURES

##### Description of first aid measures

**General advice:** Take off all contaminated clothing immediately.

**If inhaled:** Remove to fresh air. If symptoms persist, call a physician.

**In case of skin contact:** After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

**In case of eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**If swallowed:** If swallowed, seek medical advice immediately and show this container or label.

##### Most important acute symptoms/effects

**Symptoms:** No information available.

**Risks:** No information available.

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

No information available.

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#### 5. FIREFIGHTING MEASURES

##### Extinguishing media

**Suitable extinguishing media:** Any

**Unsuitable extinguishing media:** none

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

**Specific hazards during firefighting:** Fire may cause evolution of: Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Hydrogen chloride gas

**Further information:** Prevent fire extinguishing water from contaminating surface water or the ground water system.

##### Advice for firefighters

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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#### 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment.

##### Environmental precautions

##### Methods and materials for containment and cleaning up

**Methods for cleaning up:** Loose tags (unused or spent) should be collected and stored in a closed container for future use or for disposal.



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### Reference to other sections

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Handling:

Avoid dust formation. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

No special protective measures against fire required.

### Conditions for safe storage, including any incompatibilities

### Specific end use(s)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
PVC - powder (polymer) / PVC - compound	9002-86-2	TWA (Respirable fraction)	1 mg/m <sup>3</sup>	ACGIH
Titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Total dust)	10 mg/m <sup>3</sup>	OSHA P0

### Hazardous components without workplace control parameters

Components	CAS-No.
Diazinon	333-41-5
Tinuvin P	2440-22-4

### Personal protective equipment

#### Hand protection

Material : Chemically resistant gloves.

Remarks : None required for consumer use of this product.

Eye protection : Safety glasses  
None required for consumer use of this product.

Protective measures : Wear suitable protective equipment.  
Please consult label for end-user requirements.



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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Form:	solid
Colour:	orange
Odour:	stinging sulphurous
Melting point/range:	No statements available.
Boiling point/boiling range:	No statements available.
Density:	1.17 g/cm <sup>3</sup> at 20 °C
Bulk density:	No statements available.
Vapour pressure:	No statements available.
Viscosity, dynamic:	No statements available.
Viscosity, kinematic:	No statements available.
Flow time:	No statements available.
Surface tension:	No statements available.
Water solubility:	No statements available.
Solubility(ies):	No statements available.
pH:	No statements available.
Corrosive to metal:	No statements available.
Partition coefficient (n-octanol/water):	Tinuvin P log Pow: 4.2 at 25 °C
Flash point:	Not applicable
Inflammability (solid, gaseous):	No statements available.
Explosion limits:	No statements available.

##### Other information

Miscibility with water:	Not applicable
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#### 10. STABILITY AND REACTIVITY

##### Reactivity

No statements available.

##### Reactions with water / air:

No statements available.

##### Ignition temperature:

Tinuvin P

560 °C

##### Burning number:

No statements available.

##### Chemical stability

No statements available.

##### Thermal decomposition:

No data available

##### Dust explosion characteristic number:



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No statements available.

**Dust explosion class:**

No data available

**Impact sensitivity:**

No data available

**Hazardous reactions:**

No data available

**Explosive properties:**

No statements available.

**Possibility of hazardous reactions**

**deflagration ability:**

No statements available.

**Smoldering combustion:**

No statements available.

**Conditions to avoid**

No data available

**Minimum ignition energy:**

No data available

**Oxidizing properties:**

No statements available.

**Incompatible materials**

**Materials to avoid:**

Oxidizing agents

**Hazardous decomposition products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Hydrogen chloride gas

**Further information:**

The following applies in general to flammable organic substances and preparations: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

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## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

**Product:**

Acute oral toxicity : Acute toxicity estimate (ATE): 1,250 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate (ATE): 100.01 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist/aerosol



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Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate (ATE): > 5,000 mg/kg  
Method: Calculation method

#### **Components:**

##### **Diazinon:**

Acute oral toxicity : LD50 (Rat): > 300 - 400 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 3,600 mg/kg

##### **Titanium dioxide:**

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

##### **Tinuvin P:**

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg  
Method: OECD 423

Acute inhalation toxicity : LC50 (Rat): > 0.59 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist/aerosol  
Method: OECD 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD 402

#### **Skin corrosion/irritation**

##### **Components:**

##### **Diazinon:**

Species: Rabbit

Result: Moderate skin irritation

##### **Titanium dioxide:**

Result: No skin irritation

Remarks: TiO<sub>2</sub> pigments are not irritant but as with all fine powders can adsorb moisture and natural oils from the surface of the skin during prolonged exposure.

##### **Tinuvin P:**

Species: Rabbit

Method: EPA OPP 81-5

Result: No skin irritation

Remarks: Data on a comparable substance



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#### Serious eye damage/eye irritation

##### Components:

###### **Diazinon:**

Species: Rabbit

Result: Severe eye irritation

###### **Titanium dioxide:**

Result: No eye irritation

Remarks: Possibly mechanical irritation

###### **Tinuvin P:**

Species: Rabbit

Result: No eye irritation

Remarks: Data on a comparable substance

#### Respiratory or skin sensitisation

##### Components:

###### **Titanium dioxide:**

Assessment: An acute toxic effect is not expected.

###### **Tinuvin P:**

Species: Guinea pig

Method: OECD 406

Result: May cause an allergic skin reaction.

##### Components:

###### **Titanium dioxide:**

Repeated dose toxicity - : An acute toxic effect is not expected.

Assessment

#### Further information

##### Components:

###### **Titanium dioxide:**

Remarks: As with any nuisance dust, long-term exposure to concentrations of dust above the recommended exposure level may overload lung clearance mechanism and cause adverse lung effects.

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

##### Components:

###### **Titanium dioxide:**



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- Toxicity to fish : LC50 (Cyprinodon sp. (minnow)): 240 - 370 mg/l  
Exposure time: 96 h  
Test Type: Acute Fish toxicity
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Mysidopsis almyra (Opposum shrimp)): 300 - 400 mg/l  
Exposure time: 96 h

#### Ecotoxicology Assessment

- Acute aquatic toxicity : This product has no known ecotoxicological effects.

#### Tinuvin P:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.17 mg/l  
Exposure time: 96 h  
Method: OECD 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 24 h  
Method: OECD 202
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: Biomass
- NOEC (Desmodesmus subspicatus (green algae)): 33 mg/l  
Exposure time: 72 h  
Test Type: Biomass  
Method: OECD 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.013 mg/l  
Exposure time: 21 d  
Method: OECD 211
- M-Factor (Chronic aquatic toxicity) : 1
- Toxicity to bacteria : EC20 (activated sludge micro-organism): > 100 mg/l  
Exposure time: 3 h  
Method: OECD 209

#### Persistence and degradability

##### Components:

##### **Titanium dioxide:**

- Biodegradability : Remarks: Pigments are practically not biodegradable.

##### **Tinuvin P:**

- Biodegradability : Result: Not readily biodegradable.





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#### Bioaccumulative potential

##### Components:

##### **Titanium dioxide:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

##### **Tinuvin P:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 548 - 895  
Exposure time: 70 d  
Method: OECD 305

Partition coefficient: n-octanol/water : log Pow: 4.2 (25 °C)

#### Mobility in soil

No data available

#### Other adverse effects

##### Product:

Additional ecological information : Do not allow to enter surface waters or groundwater.

##### Components:

##### **Titanium dioxide:**

Additional ecological information : Do not allow to enter surface waters or groundwater.

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## 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic.

However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

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## 14. TRANSPORT INFORMATION

US Land transport (CFR)  
non-regulated

Sea transport (IMDG)



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non-regulated

Air transport (IATA)

non-regulated

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#### 15. REGULATORY INFORMATION

##### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

##### US State Regulations

##### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

##### New York City Hazardous Substances

Titanium dioxide

13463-67-7

##### The components of this product are reported in the following inventories:

TSCA Not On TSCA Inventory  
Diazinon

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#### 16. OTHER INFORMATION

##### Full text of H-Statements mentioned in chapters 2 and 3

H302 Harmful if swallowed.

H331 Toxic if inhaled.

##### Further information



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