Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product Name: Exemptor
Product Code: P50061

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended Use: Insecticide.
Uses Advised Against: Consumer use.

1.3. Details of the supplier of the safety data sheet
Manufacturer
Everris International BV
Nijverheidsweg 1-5; 6422 PD Heerlen (NL); Tel: +31 (0) 45-5609100; Fax: +31 (0) 45-5609190

For further information, please contact INFO-MSDS@EVERRIS.COM

1.4. Emergency telephone number
IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24h)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [EU-GHS]

<table>
<thead>
<tr>
<th>Carcinogenicity:</th>
<th>Category 2 - (H351)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute aquatic toxicity</td>
<td>Category 1 - (H400)</td>
</tr>
<tr>
<td>Chronic aquatic toxicity</td>
<td>Category 1 - (H410)</td>
</tr>
</tbody>
</table>

2.2. Label elements
Product Identifier:
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [EU-GHS]

Signal Word:
None

Thiacloprid
EUH208 - Contains (1,2-Benzisothiazolin-3-one, 5-chloro-2-methyl-isothiazol-3-one/2-methylisothiazol-3-one). May produce an allergic reaction
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use
4.1. Description of first aid measures

**General Advice:**
First aid measures should be executed by trained personnel only. Move victim to a safe isolated area.

**Inhalation:**
Move to fresh air. If symptoms persist, call a physician.

**Skin Contact:**
Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

**Eye Contact:**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Immediate medical attention is required.

**Ingestion:**
Do NOT induce vomiting. Rinse mouth. Call a physician or Poison Control Centre immediately.

**Protection of First-Aiders:**
Low hazard for usual industrial or commercial handling.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms: respiratory paralysis
Diarrhoea
Nausea, vomiting
Dizziness
bradycardia
Tachycardia
Salivation
Headache
Confusion
excitation
coma

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

Notes to Physician: Treatment:
Elementary aid, decontamination and symptomatic treatment.
Gastric lavage, then charcoal, (carbo medicalise) and sodium sulfate.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media:
Coordinate fire extinguishing measures to fire in surrounding area. Use dry chemical, CO2, water spray or "alcohol" foam.

Unsuitable extinguishing media:
High volume water jet.

5.2. Special hazards arising from the substance or mixture
The product itself does not burn. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters
Coordinate fire extinguishing measures to fire in surrounding area.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Personal Precautions: Use personal protective equipment. Avoid contact with skin, eyes and clothing.
For Emergency Responders: Use personal protection recommended in Section 8.

6.2. Environmental precautions
Do not contaminate surface water. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up
Methods for Containment: Prevent further leakage or spillage if safe to do so.

6.4. Reference to other sections
§ 8, 12, 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8.
When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures/storage conditions:

Store in original container. Store in a place accessible by authorized persons only. Store in a place accessible by dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs.

LGK (Germany)

Packaging Materials:

13 Bags or Bulk.

7.3. Specific end use(s)

Specific use(s)

Insecticide; Read and follow label instructions

---

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

### Mixture of 5-chlor-2-methyl-3(2H)-isothiazolon and 2-methyl-2H-isothiazol-3-on

| Austria       | Skin TWA: 0.05 mg/m³ |

Derived No Effect Level (DNEL)

No data available

Predicted No Effect Concentration (PNEC)

No data available.

8.2. Exposure controls

Engineering Measures to Reduce Exposure:

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection:

Tightly fitting safety goggles

Hand protection:

Protective gloves. Nitrile rubber (0.26 mm).

Respiratory Protection:

In case of insufficient ventilation wear suitable respiratory equipment. Respirator with FFP1 filter.

Skin and Body Protection:

Coveralls

Hygiene Measures:

Avoid contact with skin and eyes. Wash hands and exposed skin after use / handling.

Remove and wash contaminated clothing before re-use.

Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water.

---

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>granulate</td>
</tr>
<tr>
<td>Color:</td>
<td>beige</td>
</tr>
<tr>
<td>Odor:</td>
<td>Slight characteristic</td>
</tr>
<tr>
<td>pH:</td>
<td>6.7 @ 21 °C</td>
</tr>
<tr>
<td>Melting Point/Freezing Point:</td>
<td>no data available</td>
</tr>
<tr>
<td>Boiling Point/Range:</td>
<td>Solid, Not Applicable</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>Solid, Not Applicable</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Non-flammable</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>Solid, Not Applicable</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Solid, Not Applicable</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Solid, Not Applicable</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>no data available</td>
</tr>
<tr>
<td>Water Solubility:</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>no data available</td>
</tr>
<tr>
<td>Partition Coefficient:</td>
<td>Solid, Not Applicable</td>
</tr>
<tr>
<td>Autoignition Temperature:</td>
<td>382 °C</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>no data available</td>
</tr>
<tr>
<td>Explosive Properties:</td>
<td>Doesn't present explosion hazard. Based on data of ingredients.</td>
</tr>
</tbody>
</table>
9.2. Other information
Bulk density: no data available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity
Not reactive.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
Hazardous Decomposition Products:
Thermal decomposition can lead to release of irritating and toxic gases and vapors.
Possibility of Hazardous Reactions:
None under normal processing.

10.4. Conditions to avoid
For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well.

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
None under normal processing.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Acute Toxicity
Product Information:
Inhalation: May cause irritation of respiratory tract.
Eye Contact: May cause irritation.
Skin Contact: May cause irritation.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

LD50/oral: Rat > 2500 mg/kg
LD50/dermal: Rat > 2000 mg/kg

Component Information:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiacloprid</td>
<td></td>
<td></td>
<td>= 1223 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>1,2-Benzisothiazolin-3-one</td>
<td>= 1020 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Skin Corrosion or Irritation
Serious Eye Damage or Eye Irritation
Sensitization
Mutagenic effects
Carcinogenicity
Not irritating.
Slight irritation.
See also section 3.
Not considered to be mutagenic.
Thiacloprid caused at high dose levels an increased incidence of tumours in rats in the following organ(s): uterus, thyroid.
Thiacloprid caused at high dose levels an increased incidence of tumours in mice in the following organ(s): ovaries.
The tumours seen with Thiacloprid were caused through a non-genotoxic mechanism, which is not relevant at low doses.
The mechanism that triggers tumours in rodents is not relevant for the low exposures encountered under normal use conditions.
Reproductive Toxicity

Thiacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals.

Teratogenicity

STOT - Single Exposure
No known effects under normal use conditions.

STOT - Repeated Exposure
None under normal use conditions.

Aspiration Hazard

None under normal use.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Do not allow product to enter the environment uncontrolled.

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiacloprid</td>
<td>IC50 (Desmodesmus subspicatus) 96.7 mg/l Growth rate; Exposure time: 72 h</td>
<td>LC50 (Lepomis macrochirus (Bluegill sunfish)) 25.2 mg/l Exposure time: 96 h</td>
<td>EC50 (Water flea (Daphnia magna)) &gt;= 85.1 mg/l Exposure time: 48 h</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EC50 (Chironomus riparius (non-biting midge)) 0.00218 mg/l Exposure time: 28 d</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
Not rapidly degradable.

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>LOGPOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Benzisothiazolin-3-one</td>
<td>1.3</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
Not expected to adsorb on soil.

12.5. Results of PBT and vPvB assessment
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

12.6. Other adverse effects
No data available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Disposal of Wastes:
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging:
Do not re-use empty containers. Dispose of as unused product.

Other Information:
Use up product completely. Packaging material is industrial waste.

Section 14: TRANSPORT INFORMATION

IMO / IMDG
14.1
UN-No: 3077
14.2
Proper shipping name: Environmentally Hazardous Substance Solid N.O.S. (THIACLOPRID MIXTURE)
14.3
<table>
<thead>
<tr>
<th>Exemptor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hazard Class:</strong></td>
</tr>
<tr>
<td>14.4</td>
</tr>
<tr>
<td><strong>Packing group:</strong></td>
</tr>
<tr>
<td>14.5</td>
</tr>
<tr>
<td><strong>Marine Pollutant:</strong></td>
</tr>
<tr>
<td>14.6</td>
</tr>
<tr>
<td><strong>Special Provisions</strong></td>
</tr>
<tr>
<td>14.7</td>
</tr>
<tr>
<td><strong>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>ADR/RID</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1</td>
</tr>
<tr>
<td><strong>UN-No:</strong></td>
</tr>
<tr>
<td>14.2</td>
</tr>
<tr>
<td><strong>Proper shipping name:</strong></td>
</tr>
<tr>
<td>14.3</td>
</tr>
<tr>
<td><strong>Hazard Class:</strong></td>
</tr>
<tr>
<td>14.4</td>
</tr>
<tr>
<td><strong>Packing group:</strong></td>
</tr>
<tr>
<td>14.5</td>
</tr>
<tr>
<td><strong>Environmental Hazard</strong></td>
</tr>
<tr>
<td>14.6</td>
</tr>
<tr>
<td><strong>Special Provisions</strong></td>
</tr>
<tr>
<td><strong>Tunnel restriction code</strong></td>
</tr>
<tr>
<td><strong>Limited Quantity</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>IATA</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1</td>
</tr>
<tr>
<td><strong>UN-No:</strong></td>
</tr>
<tr>
<td>14.2</td>
</tr>
<tr>
<td><strong>Proper shipping name:</strong></td>
</tr>
<tr>
<td>14.3</td>
</tr>
<tr>
<td><strong>Hazard Class:</strong></td>
</tr>
<tr>
<td>14.4</td>
</tr>
<tr>
<td><strong>Packing group:</strong></td>
</tr>
<tr>
<td>14.5</td>
</tr>
<tr>
<td><strong>Environmental Hazard</strong></td>
</tr>
<tr>
<td>14.6</td>
</tr>
<tr>
<td><strong>Special Provisions</strong></td>
</tr>
</tbody>
</table>

### Section 15: REGULATORY INFORMATION
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Belgium

Denmark
Dänish Sikkerhedsgruppe Not regulated

France
ICPE Not Applicable

Germany
Gefahrstoffverordnung (Germany) TRGS 511 No information available
LGK (Germany) 13
Water Endangering Class (WGK): 2 (Everris classification)

<table>
<thead>
<tr>
<th>Component</th>
<th>German WGK Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Benzoisothiazolin-3-one 2634-33-5 ( &lt; 0.1% )</td>
<td>class 2</td>
</tr>
<tr>
<td>Mixture of 5-chlor-2-methyl-3(2H)-isothiazolone and 2-methyl-2H-isothiazol-3-one 55965-84-9 ( &lt; 0.1% )</td>
<td>class 3</td>
</tr>
</tbody>
</table>

European Union
Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

UK and Northern Ireland Regulatory References
This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)
Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367)

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)
Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009
Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)
EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits
Control of Pesticide Regulations 1986
Dangerous Substances and Explosive Atmospheres Regulations 2002

Environmental Protection Act 1990, Part II
Environmental Protection (Duty of Care) Regulations 1991
The Waste Management Licensing Regulations 1994 (as amended)
Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended)
Landfill Directive
Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)
Water Resources Act 1991
Anti-Pollution Works Regulations 1999

WHO-classification: III (Slightly hazardous)

15.2 Chemical safety assessment
Not required. Substance(s) usage is covered according to Reach regulation 1907/2006.

Section 16: OTHER INFORMATION
Full text of H-Statements referred to under sections 2 and 3
H301 - Toxic if swallowed
H332 - Harmful if inhaled
H351 - Suspected of causing cancer
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H302 - Harmful if swallowed
H315 - Causes skin irritation
H318 - Causes serious eye damage
H317 - May cause an allergic skin reaction
H311 - Toxic if inhaled
H301 + H311 - Toxic if swallowed or in contact with skin
H314 - Causes severe skin burns and eye damage

Key or legend to abbreviations and acronyms used in the safety data sheet
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
ICAO: International Civil Aviation Organization
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PNEC: Predicted No Effect Concentration
DNEL: Derived No-Effect Level
Reach: Registration, Evaluation, authorization of Chemicals
CLP: EU-GHS; Classification, Labelling and Packaging
OEL: Occupational Exposure Limit
TWA: Time Weighted Average
ATE: Acute Toxicity Estimate
EUH statement: CLP (EU) specific hazard statement.

Classification procedure:
- Calculation method
- Expert judgment and weight of evidence determination

Key literature references and sources for data

Prepared by:
Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

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12-Jan-2015

Revision Date:
26-Feb-2015

Reason for revision:
*** Indicates changes since the last revision. This version replaces all previous versions.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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End of Safety Data Sheet