

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/21/2024

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1 Identification · Product identifier · Trade name: Thiacloprid · Synonym **BAY YRC 2894** [N(Z)]-N-[3-[(6-chloro-3-pyridinyl)methyl]-2-thiazolidinylidene]-cyanamide · Article number: 25824 · CAS Number: 111988-49-9 · EC number: 601-147-9 · Index number: 613-325-00-3 · Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. · Details of the supplier of the safety data sheet Manufacturer/Supplier: Cavman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA · Information department: Product safety department • Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification · Classification of the substance or mixture GHS06 Skull and crossbones Acute Toxicity - Oral 3 H301 Toxic if swallowed. GHS08 Health hazard Carcinogenicity 2 H351 Suspected of causing cancer. Toxic to Reproduction 1B H360 May damage fertility or the unborn child. (Contd. on page 2) US

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GHS09 Environment			
Aquatic Acute 1	H400 Very toxic to aquatic life.		
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.		
GHS07			
• Grisor			
Acute Toxicity - Inhalation 4	H332 Harmful if inhaled.		
Specific Target Organ Toxicity - Single Exposure 3			
· Label elements · GHS label elements			
The substance is classified and labeled according	to the Globally Harmonized System (GHS).		
· Hazard pictograms	, , , , , , , , , , , , , , , , , , ,		
\land \land \land \land			
GHS06 GHS07 GHS08 GHS09			
• Signal word Danger			
 Hazard statements H301 Toxic if swallowed. 			
H332 Harmful if inhaled.			
H351 Suspected of causing cancer.			
H360 May damage fertility or the unborn child.			
H336 May cause drowsiness or dizziness.	in a ta		
H410 Very toxic to aquatic life with long lasting eff • Precautionary statements	ecis.		
P201 Obtain special instructions before use	3		
P202 Do not handle until all safety precaution			
P261 Avoid breathing dust/fume/gas/mist/v			
P264 Wash thoroughly after handling.			
P270 Do not eat, drink or smoke when usin			
P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment.			
P301+P310 If swallowed: Immediately call a poisc			
P321 Specific treatment (see on this label).			
P330 Rinse mouth.			
P304+P340 IF INHALED: Remove person to fresh P308+P313 IF exposed or concerned: Get medica			
P312 Call a poison center/doctor if you feel			
P391 Collect spillage.			
P403+P233 Store in a well-ventilated place. Keep	container tightly closed.		
P405 Store locked up.			
P501 Dispose of contents/container in a regulations.	ccordance with local/regional/national/international		
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Classification system:
 NFPA ratings (scale 0 - 4)

300 F

Health = 3 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH*2FIRE0Fire0REACTIVITY0Reactivity0

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 111988-49-9 Thiacloprid
- · Identification number(s)
- EC number: 601-147-9
- · Index number: 613-325-00-3

4 First-aid measures

- Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

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5 Fire-fighting measures

- · Extinguishing media
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required. • Environmental precautions:
- Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- **PAC-1:** Substance is not listed.
- PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.

7 Handling and storage

- · Handling:
- Precautions for safe handling Thorough dedusting.
 Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

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· Flammability:

· Decomposition temperature:

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	(Contd. from page 4)
· Control parameters	
-	require monitoring at the workplace:
111988-49-9 Thiacloprid	
TLV Long-term value: 0.2* mg/m ³ Skin, A3, *inh particulate matter	r
· Additional information: The lists the	at were valid during the creation were used as basis.
 exposure use respiratory protective of Protection of hands: The glove material has to be imperm Due to missing tests no recomme preparation/ the chemical mixture. Selection of the glove material on of degradation Material of gloves The selection of the suitable gloves quality and varies from manufacturer Penetration time of glove material 	es and feed. ontaminated clothing. e end of work. Ilution use respiratory filter device. In case of intensive or longer levice that is independent of circulating air. eable and resistant to the product/ the substance/ the preparation. ndation to the glove material can be given for the product/ the consideration of the penetration times, rates of diffusion and the does not only depend on the material, but also on further marks of
• Physical and chemical prope	
General Information	
· Appearance: Form:	Solid
Form: Color:	Solid Not determined.
· Odor:	Characteristic
· Structural Formula	C10H9CIN4S
· Molecular Weight	252.7 g/mol
[·] Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.

Not determined.

Product is not flammable.

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· Ignition temperature:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
Relative density	Not determined.
· Vapor density	Not applicable.
Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Not determined.
· Partition coefficient (n-octanol/water	r): Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
SOLUBILITY	Chloroform: Slightly Soluble; Methanol: Slightly Soluble
· Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents
- Hazardous decomposition products:

carbon dioxide, carbon monoxide, hydrogen chloride, hydrogen cyanide, nitrogen oxides, sulfur oxides

11 Toxicological information

- · RTECS Number GS6093749
- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral LD50 444 mg/kg (rat)

Intraperitoneal LD50 28 mg/kg (mouse)

Primary irritant effect:

- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.

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- Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · **Bioaccumulative potential** No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 3 (Assessment by list): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

· UN-Number	
· DOT, IMDG, IATA	UN2811
· UN proper shipping name	
DOT	Toxic solids, organic, n.o.s. (Thiacloprid)
·IMDG	TOXIC SOLID, ORGANIC, N.O.S. (Thiacloprid)
	Toxic solid, organic, n.o.s. (Thiacloprid)

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Tropoport borord class(cc)	(Contd. from page
Transport hazard class(es)	
DOT	
TOXIC	
TOXIC	
6	
	6.1 Toxic substances
	6.1
IMDG	
	6.1 Toxic substances
Label	6.1
ΙΑΤΑ	
Class	6.1 Toxic substances
Label	6.1
Packing group	
- , -,	111
Environmental hazards:	Environmentally hazardous substance, solid
Marine pollutant:	Symbol (fish and tree)
Special precautions for user Hazard identification number (Kemler code):	Warning: Toxic substances
EMS Number:	F-A,S-A
Stowage Category	A
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 100 kg
	On cargo aircraft only: 200 kg
IMDG	
Limited quantities (LQ)	5 kg Code: E1
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
ΙΑΤΑ	
	When sold in quantities of less than or equal to 1 ml
	or 1 g, with an Excepted Quantity Code of
	E1, E2, E4, or E5, this item meets the De Minimi Quantities exemption, per IATA 2.6.10.

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	Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (THIACLOPRID), 6.1, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- Sara
- · Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· Department issuing SDS: Environment protection department.

- · Contact: -
- · Date of preparation / last revision 08/21/2024 / -· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health

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(Contd. from page 9) TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Oral 3: Acute toxicity – Category 3 Acute Toxicity - Inhalation 4: Acute toxicity – Category 4 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 1B: Reproductive toxicity – Category 1B Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 • * Data compared to the previous version altered.