



SAFETY DATA SHEET

1. Identification

Product identifier NEPOREX® 2 SG

Other means of identification

Item Code MN5005

Synonyms A-6352 B * Larvex * Neporex WSG 2 * Neporex 2 WDG

Recommended use Insecticide

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Elanco Animal Health
2500 Innovation Way
Greenfield, IN 46140
US

Phone: 1-877-Elanco1 (1-877-352-6261)

Email: lilly_msds@lilly.com

Emergency Telephone Numbers: Elanco Product Technical Support / Human or Animal Exposure Reporting:
1-888-545-5973

Transportation Emergency Telephone: CHEMTREC: 1-800-424-9300
(Outside U.S. 1-703-527-3887)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Combustible dust

Label elements

Hazard symbol None.

Signal word Warning

Hazard statement May form combustible dust concentrations in air.

Precautionary statement

Prevention

P102 Keep out of reach of children.
P103 Read label before use.

Response

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

Storage Not available.

Disposal Not available.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Cyromazine		66215-27-8	2

Composition comments Remaining components of this product are non-hazardous and/or are present at concentrations below reportable levels.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Not available.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	This product is not flammable.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Following product recovery, flush area with water.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure.
Conditions for safe storage, including any incompatibilities	Keep at temperature not exceeding 35 °C. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Protect from freezing and direct sunlight.

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Elanco OEL: 0.14 mg/m ³ 8 hour TWA Cyromazine
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Safety glasses with side shields recommended.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Select appropriate respirator for physical characteristics of material. Select respirator with appropriate protection factor.
Thermal hazards	Not available.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	Granular.
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Physical state	Solid.
Form	Solid.
Color	White to beige.
Odor	Slight Urea.
Odor threshold	Not available.
pH	7.5 - 9.5 (1% aqueous solution)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	0.6 - 0.8 g/cm ³
Solubility(ies)	
Solubility (water)	Soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive
Oxidizing properties	No oxidizing properties.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
NEPOREX® 2 SG		
<u>Acute</u>		
Dermal		
LD50	Rat	> 5000 mg/kg

Product	Species	Test Results
Inhalation		
LC50	Rat	> 2 mg/l, 4 hours
Oral		
LD50	Rat	> 5000 mg/kg
Components	Species	Test Results

Cyromazine (CAS 66215-27-8)

Acute

Dermal

LD50 Rat > 3100 mg/kg

Inhalation

LC50 Rat > 3.6 mg/l, 4 hr (No mortality.)

Oral

LD50 Rat 3920 mg/kg
3387 mg/kg

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Irritation Corrosion - Skin

NEPOREX® 2 SG

Result: No skin irritation.
Species: Rabbit

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Eye

NEPOREX® 2 SG

Result: Mild eye irritation.
Species: Rabbit

Respiratory or skin sensitization

Respiratory sensitization

Based on available data, the classification criteria are not met.

Skin sensitization

Not available.

Skin sensitization

NEPOREX® 2 SG

Result: Not a skin sensitizer.
Species: Guinea pig

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity

Animal testing did not show any carcinogenic effects. (Cyromazine)
Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure Not available.

Specific target organ toxicity - repeated exposure Not available.

Aspiration hazard Not applicable.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components

Species

Test Results

Cyromazine (CAS 66215-27-8)

LD50	Mallard Duck (<i>Anas platyrhynchos</i>)	2510 mg/kg
	Quail (Japanese Quail)	> 6000 mg/kg, 7 days
NOEC	Chironomous riparius	0.016 mg/l, 26 days (Static water/sediment system (water-spiked))

Components		Species	Test Results
Other	ErC50	Pseudokirchnerella subcapitata	129 mg/l, 96 hours
	LD50	Bobwhite quail (<i>Colinus virginianus</i>)	1785 mg/kg
	NOEC	Pseudokirchnerella subcapitata	31.3 mg/l, 96 hours
Aquatic			
Crustacea	LC50	Daphnia magna	> 97.8 mg/l, 48 hours
			5 mg/l, 48 hours
Fish	NOEC	Daphnia magna	0.31 mg/l, 21 days
	LC50	Bluegill (<i>Lepomis macrochirus</i>)	> 89.7 ppm, 96 hours
		Channel catfish (<i>Ictalurus punctatus</i>)	> 91.6 mg/l, 96 hours
	NOEC	Rainbow Trout	1888 mg/l, 96 hours
		Fathead minnow (<i>Pimephales promelas</i>)	73 mg/l, 32 days
Terrestrial			
Other	LC50	Earthworm (<i>Eisenia foetida</i>)	> 1000 mg/kg, 14 days

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Cyromazine
-0.039, at 25 °C pH: 9
-0.069, at 25 °C pH: 7
-0.36, at 25 °C pH: 5.4
0.96

Bioconcentration factor (BCF)

Cyromazine
< 1
Species: Fish

Mobility in soil No data available.

Adsorption

Soil/sediment sorption - log Koc

Cyromazine 1.9 - 3.25

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Waste from residues / unused products Not available.

Contaminated packaging Not available.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
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SARA 313 (TRI reporting)

Not regulated.

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated.
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International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	05-28-2015
Revision date	05-17-2017
Version #	03

Lilly Lab Code	Health: 1 Fire: 1 Reactivity: 0
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List of abbreviations	Elanco OEL: Elanco Occupational Exposure Limit TWA: Time Weighted Average
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Disclaimer	As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.
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For additional information contact:
Elanco Animal Health
0011+1-877-352-6261
0011+1-800-428-4441

Revision information	This document has undergone significant changes and should be reviewed in its entirety.
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