

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

1.1. Product identifier

Trade name or designation of the mixture	Neporex 50SP
Registration number	-
Synonyms	Neporex 50 SP (C formulation) * A-7246 formulation C * A-7246C
Item Code	MN5016

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

Identified uses	Insecticide
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

National Supplier

Company name	Elanco Europe Ltd.
Address	Lilly House, Priestley Road Basingstoke RG24 9NL United Kingdom
Telephone	+44 1256 353131
E-mail	elanco_sds@elanco.com

1.4. Emergency telephone number	CHEMTREC International +1-703-527-3887 NHS Poisons Emergency Number 111
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 1	H410 - Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: CYROMAZINE

Hazard pictograms



Signal word: Warning

Hazard statements

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P273: Avoid release to the environment.

Response

P391: Collect spillage.

Storage

Not available.

Disposal

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information: None.

2.3. Other hazards: None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
CYROMAZINE	50	66215-27-8 266-257-8	-	-	
Classification:	Aquatic Chronic 1;H410(M=1)				

Other components below reportable levels 50

Composition comments The full text for all H-statements is displayed in section 16. Remaining components of this product are non-hazardous and/or are present at concentrations below reportable levels.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of 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.

4.2. Most important symptoms and effects, both acute and delayed None known.

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

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).
Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures Use water spray to cool unopened containers.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
For emergency responders Keep unnecessary personnel away.

6.2. Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Following product recovery, flush area with water.

6.4. Reference to other sections For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Store in original tightly closed container.

7.3. Specific end use(s) Insecticide

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Elanco OEL Components

Type

Value

CYROMAZINE (CAS 66215-27-8)

TWA (8hrs)

0.14 mg/m³

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Not available.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

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

General information Not available.

Eye/face protection Safety glasses with side-shields conforming to EN 166.

Skin protection

- **Hand protection** Protective gloves complying with EN 374.

- **Other** Wear suitable protective clothing. (EN 14605 for splashes, EN ISO 13982 for dust).

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.

Hygiene measures 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.

Environmental exposure controls Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Granular.

Physical state Solid.

Form Solid.

Colour White to beige.

Odour Slight Urea.

Odour threshold Not available.

pH 8.5 - 10.5 (similar product)

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.

Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	230 °C (446 °F) Grewer (similar product)
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	No oxidizing properties.
9.2. Other information	
Bulk density	0.3 - 0.5 g/cm3 (similar product)
Thermal hazards	
Relative self-ignition temperature	230 °C (446 °F) (similar product)

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Contact with incompatible materials.
10.5. Incompatible materials	Fluorine. Chlorine.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Not available.

11.1. Information on toxicological effects

Acute toxicity Not known.

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	Rabbit: No irritation. (Cyromazine) Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Rabbit: No eye irritation. (Cyromazine) Based on available data, the classification criteria are not met.	
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.	
Skin sensitisation	Guinea pig: Not a skin sensitiser. (Cyromazine) Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	In vitro and in vivo tests did not show mutagenic effects. (Cyromazine) Based on available data, the classification criteria are not met.	
Carcinogenicity	No effects identified in animal studies. (Cyromazine) Based on available data, the classification criteria are not met.	
Reproductive toxicity	Decreased offspring survival and fetal weight at doses toxic to the mother. (Cyromazine) Based on available data, the classification criteria are not met.	
Specific target organ toxicity - single exposure	No significant target organ toxicity reported. (Cyromazine) Based on available data, the classification criteria are not met.	

Specific target organ toxicity - repeated exposure	No significant target organ toxicity reported. (Cyromazine) Based on available data, the classification criteria are not met.
Aspiration hazard	Not applicable.
Mixture versus substance information	Not available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity Very toxic 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))
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
	NOEC	Daphnia magna	0.31 mg/l, 21 days
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	> 89.7 ppm, 96 hours
		Channel catfish (<i>Ictalurus punctatus</i>)	> 91.6 mg/l, 96 hours
		Rainbow trout	1888 mg/l, 96 hours
	NOEC	Fathead minnow (<i>Pimephales promelas</i>)	73 mg/l, 32 days
Terrestrial			
Soil	LC50	Earthworm (<i>Eisenia foetida</i>)	> 1000 mg/kg, 14 days

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

12.3. 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
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Bioconcentration factor (BCF)

CYROMAZINE	< 1 Species: Fish
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12.4. Mobility in soil No data available.

Adsorption

Soil/Sediment Sorption - Log Koc

CYROMAZINE	1.9 - 3.25
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12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

General information Effective January 1, 2015 by Special Provision, UN3077 and UN3082 when packaged in inner packages of 5L / 5 KG or less are not subject to the dangerous goods regulations.

ADR

14.1. UN number UN3077

14.2. UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (CYROMAZINE)
14.3. Transport hazard class(es)
Class 9
Subsidiary risk -
Label(s) 9
Hazard No. (ADR) 90
Tunnel restriction code E
14.4. Packing group III
14.5. Environmental hazards Yes
14.6. Special precautions for user Not available.

RID

14.1. UN number UN3077
14.2. UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (CYROMAZINE)
14.3. Transport hazard class(es)
Class 9
Subsidiary risk -
Label(s) 9
14.4. Packing group III
14.5. Environmental hazards Yes
14.6. Special precautions for user Not available.

ADN

14.1. UN number UN3077
14.2. UN proper shipping name Environmentally Hazardous Solid, N.o.s. (CYROMAZINE)
14.3. Transport hazard class(es)
Class 9
Subsidiary risk -
Label(s) 9
14.4. Packing group III
14.5. Environmental hazards Yes
14.6. Special precautions for user Not available.

IATA

14.1. UN number UN3077
14.2. UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (CYROMAZINE)
14.3. Transport hazard class(es)
Class 9
Subsidiary risk -
14.4. Packing group III
14.5. Environmental hazards Yes
ERG Code 9L
14.6. Special precautions for user Not available.
Other information
Passenger and cargo aircraft Allowed with restrictions.
Cargo aircraft only Allowed with restrictions.

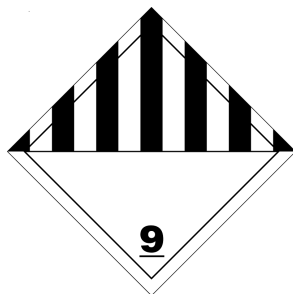
IMDG

14.1. UN number UN3077
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYROMAZINE)
14.3. Transport hazard class(es)
Class 9
Subsidiary risk -
14.4. Packing group III
14.5. Environmental hazards
Marine pollutant Yes
EmS F-A, S-F
14.6. Special precautions for user Not available.

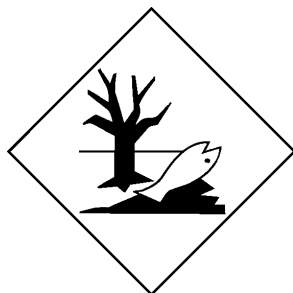
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

ADN; ADR; IATA; IMDG; RID



Marine pollutant



SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

TWA: Time Weighted Average Value.

EN: European norm.
ISO: International Standards Organization.
LD50: Lethal Dose 50%.
LC50: Lethal Concentration 50%.
NOEC: No observed effect concentration.
EC50: Effective Concentration 50%.
PBT: Persistent, bioaccumulative, toxic.
vPvB: very Persistent, very Bioaccumulative.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H410 Very toxic to aquatic life with long lasting effects.

Revision information

Product and Company Identification: Product Codes

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 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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