

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

1.1. Product identifier

Trade name or designation of the mixture	Neporex 50 SP - A Formulation
Registration number	-
Synonyms	CGA 72662 SP (50) * Larvex 50%
Item Code	MN5007

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 lilly_msds@lilly.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

Health hazards

Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
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Environmental hazards

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

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

Contains: CYROMAZINE, Octylphenoxy polyethoxyethanol

Hazard pictograms



Signal word Warning

Hazard statements

H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P101 If medical advice is needed, have product container or label at hand.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P391 Collect spillage.

Storage Not available.

Disposal Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

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
Octylphenoxy polyethoxyethanol	6	9002-93-1	-	-	
Classification:	Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Aquatic Acute 1;H400, Aquatic Chronic 2;H411				
CYROMAZINE	50	66215-27-8 266-257-8	-	-	M=1
Classification:	Aquatic Chronic 1;H410				

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 Not available.

4.1. Description of first aid measures

Inhalation Remove to fresh air. If breathing stops, provide artificial respiration. Get medical attention immediately.

Skin contact Wash off immediately with plenty of water. Continue to rinse for at least 15 minutes. Immediately take off all contaminated clothing. Get medical attention if irritation develops and persists.

Eye contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Ingestion Immediately give large quantities of water to drink. Never give anything by mouth to a victim who is unconscious or is having convulsions. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed Not available.

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide, dry chemical or water.

Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture Dust may form explosive mixture with air. Hazardous decomposition products formed under fire conditions.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear self-contained breathing apparatus and protective clothing.

Special fire fighting procedures Not available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Do not sweep. Collect spill using a vacuum cleaner with a HEPA filter. If vacuum is not available, lightly mist/wet material and remove by mopping or wet wiping. Be aware of potential for dust explosion when using electrical equipment. For waste disposal, see section 13 of the SDS.

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 Minimise dust generation and accumulation. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. 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. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Elanco OEL: 0.14 mg/m ³ 8 hour TWA (Cyromazine)
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. Provide eyewash station.

Individual protection measures, such as personal protective equipment

General information	Not available.
Eye/face protection	Wear safety glasses with side shields (or goggles).
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.
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 Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Solid.
Form	Powder.
Colour	White to Beige.

Odour Not available.

Odour threshold	Not available.
pH	8.5 - 10.5
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	230 °C (446 °F) Grewer
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	
Bulk density	0.3 - 0.5 g/cm ³
Thermal hazards	
Relative self-ignition temperature	230 °C (446 °F)

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

Product	Species	Test results
Neporex 50 SP - A Formulation		
Acute		
Dermal		
LD50	Rat	> 3000 mg/kg
Inhalation		
LC50	Rat	> 4765 mg/m ³ , 4 hours
Oral		
LD50	Rat	3612 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
Octylphenoxy polyethoxyethanol (CAS 9002-93-1)		
Acute		
Dermal		
LD50	Rabbit	8000 mg/kg
Oral		
LD50	Rat	1800 mg/kg
Skin corrosion/irritation	Rabbit: Slight irritation. Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Rabbit: Irritating to eyes.	
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)			
Other	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))	
	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	

Components	Species	Test results
	Rainbow trout	1888 mg/l, 96 hours
	NOEC	Fathead minnow (<i>Pimephales promelas</i>) 73 mg/l, 32 days
Terrestrial		
Other	LC50	Earthworm (<i>Eisenia foetida</i>) > 1000 mg/kg, 14 days
Octylphenoxy polyethoxyethanol (CAS 9002-93-1)		
Aquatic		
Crustacea	EC50	Daphnia 26 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) 6 mg/l, 96 hours

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
Octylphenoxy polyethoxyethanol	4.86

Bioconcentration factor (BCF)

CYROMAZINE	< 1
	Species: Fish

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 No Chemical Safety Assessment has been carried out.

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	Read safety instructions, SDS and emergency procedures before handling.

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 Read safety instructions, SDS and emergency procedures before handling.

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 Read safety instructions, SDS and emergency procedures before handling.

IATA

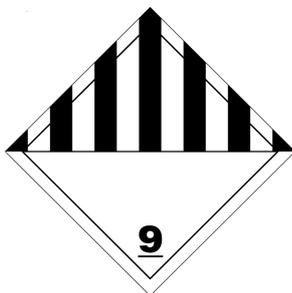
14.1. UN number UN3077
14.2. UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (CYROMAZINE)
14.3. Transport hazard class(es)
 Class 9
 Subsidiary risk -
14.4. Packing group III
14.5. Environmental hazards Yes
ERG Code 9L
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
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 Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

ADN; ADR; IATA; IMDG; RID





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

Octylphenoxy polyethoxyethanol (CAS 9002-93-1)

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

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. Additional information is given in the Safety Data Sheet.

National regulations

Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Elanco OEL: Elanco Occupational Exposure Limit
TWA: Time Weighted Average

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

H302 Harmful if swallowed.
H303 May be harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Revision information

Product and Company Identification: Synonyms
Toxicological Information: Toxicological Property Data
SECTION 11: Toxicological information: Corrosivity
SECTION 11: Toxicological information: Eye contact

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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