

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version: 5.0

Revision Date 15.11.2012

Print Date 16.11.2012

NEPOREX 2 SG

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Identification	CAS-No.	Classification 67/548/EEC	Classification REGULATION (EC) No 1272/2008		Concentration (% w/w)
Cyromazine	66215-27-8	Xn R22	Acute Tox. 4 (oral)	H302	2.00

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- General advice : If you feel unwell, seek medical advice (show the label where possible).
- Inhalation : Move to fresh air.
Consult a physician if any symptoms develop and persist.
- Skin contact : Wash off with soap and water.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids. Seek medical advice.
- Ingestion : Rinse mouth with water. Drink water as a precaution.

4.2 Most important symptoms/effects, acute and delayed

- Poisoning Symptoms : No case of human poisoning is on record.

4.3 Indication of any immediate medical attention and special treatment needed

- Antidote : No specific antidote is known! Apply symptomatic therapy.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media : Dry powder, foam, carbon dioxide (CO₂) or water spray (do not use water jet).

5.2 Special hazards arising from the substance or mixture

- Hazardous decomposition products : Carbon dioxide (CO₂) Carbon oxides nitrogen oxides (NO_x)

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
- Further information : Exposure to decomposition products may be a hazard to health. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

- Environmental precautions : No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

- Methods for cleaning up : Knock down dust with water spray jet.
Sweep up or vacuum up spillage and collect in suitable container for disposal.
Dispose of in an incinerator approved for chemicals.
Treat contaminated surfaces with water.
Spilled product cannot be used further and must be disposed of.
If safe disposal is not possible, contact the manufacturer, the dealer or the local representative.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

 Version: 5.0
 Revision Date 15.11.2012

Print Date 16.11.2012

NEPOREX 2 SG

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

- Safe handling advice** : Handle in accordance with good industrial hygiene and safety practice.
 In addition to the measures taken usually in the chemical works like dustproof filling and measuring equipment (including dust extraction), further personal protection measures may have to be implemented to avoid possible contact with the product.
- Storage**
- Advice on common storage** : Keep away from food, drink and animal feedingstuffs.
- Novartis storage class** : 20.2
- Storage temperature:** : min. 2 °C - max. 30 °C
- Other data** : Store the product in closed original containers.
 Protect from direct sunlight.
 Protect from humidity.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Identification	CAS-No.	Notes	Exposure limit(s)
Cyromazine	66215-27-8	Novartis Internal Exposure Limit (NPIEL) 8 h TWA	0.14 mg/m ³

8.2 Exposure controls

- Protective measures** : The use of technical measures should always have priority over the use of personal protective equipment.
- Personal protective equipment**
- Open handling**
- Respiratory protection** : Effective dust mask.
- Hand protection** : Protective gloves
- Eye protection** : Safety glasses
- Skin and body protection** : Heavy duty cotton or synthetic fabric working clothes (e.g. overalls).
 Heavy duty work shoes
 Boots
- Hygiene measures** : Shower or bathe at the end of working.
 Change clothing.
 Thoroughly clean contaminated equipment with soap or soda solution.
 Thoroughly clean protective gear.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version: 5.0

Revision Date 15.11.2012

Print Date 16.11.2012

NEPOREX 2 SG

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	:	solid
Form	:	granular
Colour	:	white - beige
Bulk density	:	0.60 - 0.80 g/cm ³
pH	:	7.5 - 9.5 pH (media): Solution in deionised water - 1 %
Miscibility with water	:	miscible
Flammability	:	not inflammable up to 200 °C Method: Flammability (gases) Extinguishability with CO ₂ : yes
	:	combustible Method: Flammability (solids)
Ignition temperature	:	Relative self-ignition temperature for solids: not detected
Impact Sensitivity	:	Hit test: no detonation
Thermal decomposition	:	Exothermic reaction: no exothermic reaction up to 220 °C Method: Lütolf - isoperibol
	:	Exothermic reaction: no exothermic reaction up to 130 °C Method: Grewer Heating rate: 1 °C/min
Burning number	:	2: Brief ignition, rapid extinction. at 20 °C 2: Brief ignition, rapid extinction. at 100 °C

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity : Stable under recommended storage conditions.

10.2 Chemical stability

Chemical Stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored normally.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

 Version: 5.0
 Revision Date 15.11.2012

Print Date 16.11.2012

NEPOREX 2 SG

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	:	LD50 > 5,000 mg/kg Species: Rat
Acute inhalation toxicity	:	LC50 >1958 MG/M3 Species: Rat Exposure time: 4 h
Acute dermal toxicity	:	LD50 > 5,000 mg/kg Species: Rat
Skin irritation	:	No skin irritation Species: rabbit
Eye irritation	:	No eye irritation Species: rabbit
Sensitisation	:	not sensitizing Species: guinea pig
Mutagenicity (in vitro)	:	negative Remarks: Derived from the active ingredient(s)
Mutagenicity (in vivo)	:	negative Remarks: Derived from the active ingredient(s)
Further information	:	not teratogenic (rat, rabbit) Derived from the active ingredient(s)

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	:	LC50 > 100 mg/l Species: Salmo trutta (trout) Exposure time: 96 h Remarks: Derived from the active ingredient(s)
	:	LC50 > 100 mg/l Species: Cyprinus carpio (Common carp) Exposure time: 96 h Remarks: Derived from the active ingredient(s)
Toxicity to daphnia	:	LC50 > 100 mg/l Species: Daphnia magna (water flea) Exposure time: 48 h Remarks: Derived from the active ingredient(s)
Toxicity to algae	:	IC50 > 100 mg/l Species: Scenedesmus subspicatus (green algae) Exposure time: 120 h Remarks: Derived from the active ingredient(s)
Toxicity to soil organisms	:	LC50 > 1,000 mg/kg Species: Eisenia foetida (earthworm) Exposure time: 14 d Remarks: Derived from the active ingredient(s)
Toxicity to birds	:	LD 50 (acute) > 6,000 mg/kg Species: Anas platyrhynchos domestica (Peking duck)
	:	LD 50 (acute) > 6,000 mg/kg Species: Coturnix japonica (Japanese quail)
Toxicity to bees	:	Remarks: Non-toxic for adult bees

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version: 5.0

Revision Date 15.11.2012

Print Date 16.11.2012

NEPOREX 2 SG

12.2 Persistence and degradability

Biodegradability : not biodegradable
 Remarks: Derived from the active ingredient(s)

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Refer to protective measures listed in sections 7 and 8. Pick up and transfer to properly labelled containers. Dispose of in an incinerator approved for chemicals. In accordance with internal, local and national regulations. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative.

Contaminated packaging : Check possibilities of recycling large empty containers, drums and barrels. Dispose of empty containers in an incinerator approved for chemicals. In accordance with internal, local and national regulations.

SECTION 14: TRANSPORT INFORMATION

Transport Condition : Transport + intermediate storage <=40°C

Land transport (ADR/RID)

UN number : FREE
 Class : Not classified as dangerous good

Sea transport (IMDG)

UN number : FREE
 Class : Not classified as dangerous good

Air transport (ICAO/IATA)

UN number : FREE
 Class : Not classified as dangerous good

Postal delivery - Switzerland : 1 allowed

SECTION 15: REGULATORY INFORMATION

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

National legislation

Weight limit (Switzerland - StFV) : 200,000 kg

Swiss Fire Prevention Code : F4 S

15.2 Chemical Safety Assessment

Assessment : not required

SECTION 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

Full text of H-Statements referred to under sections 2 and 3.

R22 : Harmful if swallowed.

H302 : Harmful if swallowed.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.