

MATERIAL SAFETY DATA SHEET

based on Regulation (EC) No. 1907/2006, Annex II

SUPER ANTIRAIN

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

1.1 Product identifier

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

Relevant identified uses

Moisture protection

Uses advised against

No information available.

1.3 Details of the supplier of the safety data sheet

Nanoprotech OÜ
Uus-Sadama 21
10120 Tallinn / Estonia
Phone: +3726816270
Fax: +3726816271

E-Mail: info@nanoprotech.com

1.4 Emergency telephone number

+37 26816270 (08:00 – 17:00 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2	H225: Highly flammable liquid and vapour
Eye Irrit. 2	H319: Causes serious eye irritation
STOT SE 3	H336: May cause drowsiness or dizziness

2.2 Label elements

Hazardous components which must be listed on the label: isopropyl alcohol

Signal word DANGER



Hazards pictograms

Hazard statements

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
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Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

Article according to Regulation (EC) No. 1907/2006

Hazardous components

CAS No. EC No. REACH No.	Chemical name Classification according to Regulation (EC) No. 1272/2008	Quantity
67-63-0	Isopropyl alcohol	75 – 100 %
200-661-7	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
01-2119457558-25		

Full text of H and EUH phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Take off immediately all contaminated clothing.

After inhalation:

Provide fresh air.

After contact with skin:

After contact with skin, wash immediately with plenty of water and soap and rinse afterwards.

After contact with eyes:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion:

Rinse mouth immediately and drink plenty of water. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Vapours may cause drowsiness or dizziness. Other symptoms: headache, nausea, weakness

4.3 Indication of any immediate medical attention and special treatment needed

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First aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray, foam, extinguishing powder, carbon dioxide (CO₂).

Unsuitable extinguishing media:

Full water jet.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: carbon monoxide, carbon dioxide (CO₂). May form flammable/explosive vapour-air mixtures. Vapours are heavier than air and spread along floors.

5.3 Advice for firefighters

In case of fire: wear self-contained breathing apparatus.

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe vapour or spray. Avoid contact with eyes, skin and clothing. Keep away from sources of ignition – no smoking.

6.2 Environmental precautions

Do not allow to enter drains or waterways.

6.3 Methods and material for containment and cleaning up

Provide adequate ventilation. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4 Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

Provide adequate ventilation. Avoid contact with eyes, skin and clothing. Do not breathe vapour/spray.

Advice on protection against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed. Store in a dry, well-ventilated place.

Advice on storage compatibility:

Keep away from food and animal feeding stuffs.

Do not store together with: oxidizing agents.

Further information on storage conditions:

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits (EH40):

CAS No.	Substance	ppm	mg/m ³	Category	Origin
67-63-0	Isopropyl alcohol	400	999	TWA (8h)	WEL
		500	1250	STEL (15 min)	

DNEL values:

DNEL type	Exposure route	Effect	Value
Isopropyl alcohol			
Worker DNEL, long-term	Dermal		888 mg/kg bw/day
Worker DNEL, long-term	Inhalation		500 mg/m ³
Consumer DNEL, long-term	Dermal		319 mg/kg bw/day
Consumer DNEL, long-term	Inhalation		89 mg/m ³
Consumer DNEL, long-term	Oral		26 mg/kg bw/day

PNEC values:

Environmental compartment	Value
Isopropyl alcohol	
Soil	28 mg/kg
Marine water	140,9 mg/l
Freshwater	140,9 mg/l
Marine sediment	552 mg/kg
Freshwater sediment	552 mg/kg

8.2 Exposure controls

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Appropriate engineering controls:

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Protective and hygiene measures:

Common precautionary measures have to be observed when handling chemical substances. Wash hands before breaks and after work. When using do not eat, drink, smoke. Keep away from food and animal feeding stuffs.

Eye/face protection: Safety goggles are recommended.

Hand protection: Protective gloves are recommended.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Skin protection: Not necessary.

Respiratory protection: Not necessary when used under normal working conditions.

Environmental exposure controls:

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Tissue with liquid
Colour:	White
Odour:	Like: alcohol
Odour threshold:	Not determined
pH:	Not applicable
Melting point:	Not applicable
Boiling point:	Not applicable
Flash point:	12 °C (of the active material)
Flammability (solid, gas):	Not determined
Explosive properties:	In use, may form flammable/explosive vapour-air mixture
Lower explosion limit:	Not determined
Upper explosion limit:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Oxidizing properties:	Not determined
Vapour pressure:	Not determined
Density (at 20 °C):	0,76 – 0,82 g/cm ³ (of the active material)
Water solubility / miscibility:	The cloth is insoluble in water
Solubility in other solvents:	Not determined
Partition coefficient:	Not determined
Viscosity, dynamic:	Not applicable
Vapour density:	Not determined

9.2 Other information

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None.

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Reactions are possible with: oxidizing agents, strong acids.

10.4 Conditions to avoid

Keep away from sources of ignition.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

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

Exposure routes	Method	Value	Species	Source
Isopropyl alcohol				
Oral	LD50	> 2000 mg/kg	Rat	
Dermal	LD50	> 2000 mg/kg	Rabbit	
Inhalation (4h)	LC50	> 5 mg/l	Rat	

Irritation and corrosivity:

Causes serious eye irritation.

Sensitising effects:

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

STOT – single exposure:

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

Severe effects after repeated or prolonged exposure:

May cause drowsiness or dizziness.

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Carcinogenic/mutagenic/toxic effects for reproduction:

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

Aspiration hazard:

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

SECTION 12: Ecological information

12.1 Toxicity

There are no data for the article itself.

Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
Isopropyl alcohol					
Acute fish toxicity	LC50	> 100 mg/l	48 h	Leuciscus idus melanotus	
Acute crustacea toxicity	EC50	> 100 mg/l	48 h	Daphnia magna	
Acute algae toxicity	EC50	> 100 mg/l	72 h	Scenedesmus subspicatus	

12.2 Persistence and degradability

There are no data for the article itself.

12.3 Bioaccumulative potential

There are no data for the article itself.

12.4 Mobility in soil

There are no data for the article itself.

12.5 Results of PBT and vPvB assessment

The substances in this article do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

There are no data for the article itself.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Advice on disposal:

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number:

No dangerous good in sense of this transport regulation

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14.2 UN proper shipping name:	No dangerous good in sense of this transport regulation
14.3 Transport hazard class(es):	No dangerous good in sense of this transport regulation
14.4 Packing group:	No dangerous good in sense of this transport regulation

Inland waterways transport (ADN)

14.1 UN number:	No dangerous good in sense of this transport regulation
14.2 UN proper shipping name:	No dangerous good in sense of this transport regulation
14.3 Transport hazard class(es):	No dangerous good in sense of this transport regulation
14.4 Packing group:	No dangerous good in sense of this transport regulation

Marine transport (IMDG)

14.1 UN number:	No dangerous good in sense of this transport regulation
14.2 UN proper shipping name:	No dangerous good in sense of this transport regulation
14.3 Transport hazard class(es):	No dangerous good in sense of this transport regulation
14.4 Packing group:	No dangerous good in sense of this transport regulation

Air transport (ICAO)

14.1 UN number:	No dangerous good in sense of this transport regulation
14.2 UN proper shipping name:	No dangerous good in sense of this transport regulation
14.3 Transport hazard class(es):	No dangerous good in sense of this transport regulation
14.4 Packing group:	No dangerous good in sense of this transport regulation

14.5 Environmental hazards

Environmentally hazardous: no

14.6 Special precautions for users

See sections 6 – 8.

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

Not relevant.

SECTION 15: Regulatory information

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

EC regulatory information:

REACH, Annex XVII, Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles: No. 40

National regulatory information:

Water contaminating class (D): 1 – slightly water contaminating

15.2 Chemical safety assessment

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Not applicable.

SECTION 16: Other information

Relevant E- and EUH phrases (number and full text)

H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Further information:

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.