
SAFETY DATA SHEET

1 Identification of the substance or preparation and of the company/undertaking

Product Name: **Nicotine**
Datasheet Number: Nicotine 01_19022008 2. 3. 0
Use of the substance/preparation: Active ingredient used in antismoking therapy products such as nicotine transdermal patches.
Chemical Name: Nicotine



Very Toxic Dangerous for the Environment

Name of Supplier: Nicobrand Ltd
Address of Supplier: 189 Castleroe Road
Coleraine
N Ireland
BT51 3RP
UK

Telephone: +44 (0) 2870 868 733
Fax: +44 (0) 2870 868 735
Responsible Person:
Email: safetydatasheets@nicobrand.com
Emergency Telephone: +44 (0) 1865 407 333

2 Hazards identification

- Contact with eyes: Causes irritation
 - Contact with skin: Very toxic in contact with skin (R27), Causes irritation, Can be absorbed through skin
 - Inhalation: Causes nausea/vomiting, Causes dizziness, confusion, headache or stupor
 - Ingestion: Toxic if swallowed (R25), May cause nausea/vomiting, May cause diarrhoea, May cause gastro-intestinal disturbances, May cause cyanosis
 - Reproductive Effects: May cause adverse reproductive effects
 - Aggravated Effects: Possible risk of irreversible effects (R68)
-

3 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols
Nicotine	100%	54-11-5	200-193-3	R25-27-51/53	T+, N

*See Section 16

4 First aid measures

Contact with skin

- Seek immediate medical attention
- Remove contaminated clothing immediately and drench affected skin with plenty of water

Contact with eyes

- Seek immediate medical attention
 - If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
 - Irrigate eyes thoroughly whilst lifting eyelids
-

4 First aid measures (....)

Ingestion

- Seek immediate medical attention
- Rinse mouth with water (do not swallow)
- Do not induce vomiting
- Never give anything by mouth to an unconscious person

Inhalation

- Seek immediate medical attention
- Remove patient to fresh air
- Apply artificial respiration only if patient is not breathing
- If breathing is difficult, oxygen should be given by a trained person
- Keep warm and at rest

General

- Seek immediate medical attention

Notes to Physicians

- Early symptoms of overdose may include nausea, vomiting, increased salivation, watery eyes, abdominal pain, diarrhoea, cold sweat, headache, dizziness, disturbed hearing and vision, agitation, high blood pressure, confusion and weakness. Late symptoms of overdose include fainting, drop in blood pressure, difficult breathing, weak, rapid or irregular pulse, lethargy, convulsions and coma. Death may occur from paralysis of respiratory muscles. Treatment should be symptomatic and supportive, in particular the respiratory system and cardiovascular systems. Ventilation & inotropic support may be necessary in the short term until the nicotine is absorbed. Nicotine is usually metabolised 1-2 hours. Gastric lavage if ingestion <4 hours. If > 4 hours, use cathartic, e.g. Magnesium Sulphate. Diazepam to control convulsions.

5 Fire-fighting measures

- Substance evolves toxic fumes, wear self-contained breathing apparatus
 - In case of fire use water, carbon dioxide or dry agent (S43)
 - Prevent run off water from entering drains if possible
-

6 Accidental release measures

Personal Precautions

- Evacuate the area

Environmental Precautions

- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities
- Use appropriate containment to avoid environmental contamination (S57)

Clean Up Actions

- Absorb spillage in inert material and shovel up
 - Place in sealable container
 - Ventilate the area and wash spill site after material pick-up is complete
-

7 Handling and storage

Handling

- Avoid contact with skin and eyes (S24/25)
 - When using do not eat, drink or smoke (S20/21)
 - Wash hands thoroughly after using this substance
 - Keep away from food, drink and animal feedingstuffs (S13)
 - Do not breathe vapour (S23)
-

7 Handling and storage (....)

Storage

- Keep in a cool, dry, well ventilated place
 - Keep locked up and out of reach of children (S1/2)
-

8 Exposure controls and personal protection

Exposure Limits

Nicotine

- WEL (long term) 0.5 mg/m³
- WEL (short term) 1.5 mg/m³

Exposure controls

- Wear goggles giving complete eye protection
- Wear suitable respiratory protection
- Wear neoprene or nitrile gloves
- Wear apron or other light protective clothing

Occupational exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines
-

9 Physical and chemical properties

- Odour: Fishy odour
 - Appearance: Liquid, colourless to yellow
 - Boiling point 247.3 °C
 - Vapour pressure 1 mm /Hg
 - Vapour density (air = 1) 5.6
 - Completely soluble in water
 - Density 1.01 g/cm³ at 20 deg C
 - Flash point 101 deg C (CC), Lower flammability limit 0.75%(in air), Upper flammability limit 4.0%(in air)
-

10 Stability and reactivity

- Sensitive to light and moisture
 - Keep away from light and moisture
 - Incompatible with oxidizing substances
 - Decomposition products may include nitrogen and carbon oxides
 - Avoid open flames and high temperatures
-

11 Toxicological information

Toxicological information

- LD50 (oral,rat) 50 mg/kg
 - May disturb the central nervous system
 - May cause nausea/vomiting
 - May cause dizziness
 - May cause headache
 - May cause diarrhoea
 - May cause cyanosis
-

11 Toxicological information (....)

Teratogenicity

- May cause harm to the unborn child (R61)

12 Ecological information

Ecotoxicity

- LC50 (rainbow trout) 4 mg/l (# hr)
- EC50 (daphnia) 0.24 mg/l (# hr)
- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R51/53)
- Toxic to bees (R57)

Persistence and Biodegradability

- Degrades rapidly on exposure to air

13 Disposal considerations

Disposal considerations

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Disposal should be in accordance with local, state or national legislation
- Mix with a suitable solvent and incinerate at a licensed facility

14 Transport information



Toxic

Proper Shipping Name: Nicotine

UN

Proper Shipping Name:	Nicotine	UN No.:	1654
Hazard Class:	6.1	Packing Group:	II

Road/Rail (ADR/RID)

Proper Shipping Name:	Nicotine	ADR UN No.:	1654
ADR Hazard Class:	6.1	ADR Classification Code:	
ADR Packing Group:			

Sea (IMDG)

Proper Shipping Name:	Nicotine	IMDG UN No.:	1654
IMDG Hazard Class.:	6.1	IMDG Pack Group.:	II
IMDG EmS:	F-A, S-A		

14 Transport information (....)

Air (ICAO/IATA)

Proper Shipping Name:	Nicotine	ICAO Un No.:	1654
ICAO Hazard Class.:	6.1	ICAO Packing Group.:	II

15 Regulatory information

Classification and labelling

- This Safety Data Sheet does not constitute a workplace risk assessment



Very Toxic Dangerous for the Environment

Applicable Laws

- Refer to current COSHH Regulations
- Refer to current Health and Safety at Work Act
- Refer to current Management of Health and Safety Regulations 1992
- Refer to current EC Directive EC 1907/2006 (REACH)

Risk Phrases

- Toxic if swallowed (R25)
- Very toxic in contact with skin (R27)
- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R51/53)

Safety Phrases

- Keep locked up and out of reach of children (S1/2)
- Wear suitable protective clothing and gloves (S36/37)
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
- Avoid release to the environment. Refer to special instructions/Safety data sheets (S61)

16 Other information

Text of R and S phrase codes used in this safety data sheet:- R25: Toxic if swallowed; R27: Very toxic in contact with skin; R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties