SAFETY DATA SHEET



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

1.1. Product identifier

Trade name or designation

NICODERM CQ

of the mixture

Registration number

NICODERM CQ CLEAR PATCH 7MG, 14MG AND 21 MG (US) * NICODERM CQ PATCH 21 MG **Synonyms**

(US) * NIQUITIN CQ CLEAR PATCH 7 MG, 14 MG AND 21 MG (UK) * NIQUITIN CQ ORIGINAL PATCH 7 MG, 14 MG AND 21 MG (UK) * NICABATE CQ CLEAR PATCH 7 MG, 14 MG AND 21 MG (AUSTRALIA) * NICABATE CQ OPAQUE PATCH 7 MG, 14 MG AND 21 MG (AUSTRALIA) *

NICOTINE TRANSDERMAL SYSTEM * NICOTINE, FORMULATED PRODUCT

Issue date 22-September-2014

Version number 14

Revision date 22-September-2014

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

Medicinal Product Identified uses

> This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant

to medicinal use of the product. In this instance patients should consult prescribing

information/package insert/product label or consult their pharmacist or physician. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate

safety data sheet for each ingredient.

Uses advised against No other uses are advised.

1.3. Details of the supplier of the safety data sheet

GlaxoSmithKline UK 980 Great West Road

Brentford, Middlesex TW8 9GS UK

UK General Information (normal business hours): +44-20-8047-5000

Email Address: msds@gsk.com Website: www.gsk.com

1.4. Emergency telephone

number

TRANSPORT EMERGENCIES::

+(44)-870-8200418 UK In-country toll call: International toll call: +1 703 527 3887

available 24 hrs/7 days; multi-language response

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 Directive 67/548/EEC or 1999/45/EC as amended

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

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

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

2.2. Label elements

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

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

Supplemental label information

2.3. Other hazards Assume that this product is capable of sustaining combustion.

Caution - Pharmaceutical agent. See section 11 for additional information on health hazards.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Material name: NICODERM CQ

General information

Chemical name % CAS-No. / EC No. REACH Registration No. INDEX No. Notes

NICOTINE 10 - < 12 54-11-5 - 614-001-00-4

200-193-3

Classification: DSD: Repr. Cat. 3;R62-63, T+;R27, T;R25, Xi;R41, N;R50-51/53

CLP: Acute Tox. 3;H301, Acute Tox. 1;H310, Eye Irrit. 2;H319, Repr. 2;H361,

Aquatic Acute 1;H400, Aquatic Chronic 2;H411

Other components below reportable levels 80 - < 90

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance. PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

Composition comments The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

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

protect themselves. Pre-placement and periodic health surveillance is not usually indicated. The final determination of the need for health surveillance should be determined by local risk

assessment.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist. If breathing is difficult, trained

personnel should give oxygen. Under normal conditions of intended use, this material is not

expected to be an inhalation hazard.

Skin contact Immediately flush skin with plenty of water. Take off contaminated clothing and wash before reuse.

Get medical attention if symptoms occur.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting

without medical advice. If ingestion of a large amount does occur, call a poison control centre

immediately.

4.2. Most important symptoms and effects, both acute and

delayed

The following adverse effects have been noted with therapeutic use of this material: sweating; salivation; dry mouth; abdominal pain; constipation; vomiting; diarrhoea; headache; dizziness; visual disturbances; tremor; increased heart rate; nervousness; mental impairment; weakness.

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

No specific antidotes are recommended. Treat according to locally accepted protocols. For additional guidance, refer to the current prescribing information or to the local poison control information centre.

SECTION 5: Firefighting measures

General fire hazards Assume that this product is capable of sustaining combustion.

None known.

5.1. Extinguishing media

Suitable extinguishing

media

Foam. Dry chemical powder. Carbon dioxide (CO2). Water.

Unsuitable extinguishing

media

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 methodsUse 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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. 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.

Material name: NICODERM CQ SDS IRELAND

#

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

6.2. Environmental precautions Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic

environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid

discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Stop the flow of material, if this is without risk. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

6.4. Reference to other

For personal protection, see section 8. For waste disposal, see section 13.

sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not

empty into drains.

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) Medicinal Product

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

GSK

Components	Туре	Value	Note
NICOTINE (CAS 54-11-5)	15 MIN STEL	200 mcg/m3	
	8 HR TWA	70 mcg/m3	
	OHC	3	Reproductive hazard
		3	Skin
Ireland. Occupational Exposure Lin	nits		
Components	Туре	Value	
NICOTINE (CAS 54-11-5)	TWA	0.5 mg/m3	
EU. Indicative Exposure Limit Value	es in Directives 91/322/EEC, 200	00/39/EC, 2006/15/EC, 2009/	/161/EU
Components	Туре	Value	
NICOTINE (CAS 54-11-5)			

Biological limit values

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

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL) Not available.

Predicted no effect concentrations (PNECs)

Not available.

Exposure guidelines

Ireland Exposure Limit Values: Skin designation

NICOTINE (CAS 54-11-5)

Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering

controls

An Exposure Control Approach (ECA) is established for operations involving this material based upon the OEL/Occupational Hazard Category and the outcome of a site- or operation-specific risk

assessment. General ventilation normally adequate.

Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment. Follow all local regulations if

personal protective equipment (PPE) is used in the workplace.

Eye/face protection Not normally needed. If contact is likely, safety glasses with side shields are recommended. (eg.

EN 166)

Skin protection

- Hand protection Not normally needed. For prolonged or repeated skin contact use suitable protective gloves. Select

suitable chemical resistant protective gloves (EN 374) with a protective index 6 (>480min

permeation time).

- Other Not normally needed. Wear suitable protective clothing as protection against splashing or

contamination. (EN 14605 for splashes, EN ISO 13982 for dust)

Material name: NICODERM CQ SDS IRELAND

Respiratory protectionNo personal respiratory protective equipment normally required. When workers are facing

concentrations above the exposure limit they must use appropriate certified respirators. Where breathable aerosols/dust are formed, use suitable combination filter for gases/vapours of organic,

inorganic, acid inorganic, alkaline compounds and toxic particles (eg. EN 14387).

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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. For advice on suitable monitoring methods, seek guidance

from a qualified environment, health and safety professional.

Environmental exposure controls

Hazard guidance and control recommendations

Contain spills and prevent releases and observe national regulations on emissions. 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

Physical stateSolid.FormPatch.

Colour Not available.

Odour Not available.

Odour threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

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 pressureNot available.Vapour densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.
Solubility (other) Not available.
Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.Explosive propertiesNot available.Oxidizing propertiesNot available.

9.2. Other information No relevant additional information available.

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 acids. Strong oxidising agents.

10.6. Hazardous Irritating and/or toxic fume

decomposition products

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

Material name: NICODERM CQ SDS IRELAND

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Ingestion Harmful if swallowed. However, ingestion is not likely to be a primary route of occupational

exposure.

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Skin contact Health injuries are not known or expected under normal use. May be harmful in contact with skin.

Harmful in contact with eyes. Direct contact with eyes may cause temporary irritation. Eye contact

The following adverse effects have been noted with therapeutic use of this material: sweating; **Symptoms**

salivation; dry mouth; constipation; vomiting; abdominal pain; diarrhoea; headache; dizziness;

visual disturbances; tremor; increased heart rate; nervousness; mental impairment; weakness.

NICOTINE nervous system

11.1. Information on toxicological effects

Expected to be a low hazard for usual industrial or commercial handling by trained personnel. May **Acute toxicity**

be harmful in contact with skin.

Components Species **Test results** NICOTINE (CAS 54-11-5) **Acute** Dermal LD50 Rat 140 mg/kg Oral LD50 Rat 188 mg/kg

Skin corrosion/irritation Health injuries are not known or expected under normal use.

Serious eye damage/eye

irritation

Harmful in contact with eyes. May be irritating to eyes.

Respiratory sensitisation Not available.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Mutagenicity

NICOTINE Ames Result: negative

In vitro cytogenetics assay

Result: negative

Mouse micronucleus test

Result: negative

in vitro micronucleus assay

Result: positive Organ: gingivum

sister chromatid exchange

Result: positive

Carcinogenicity Health injuries are not known or expected under normal use.

NICOTINE

Inhalation

Result: negative Species: Rat

oral

Result: negative Species: Rat tumour promotor Species: Mouse

Health injuries are not known or expected under normal use. Components in this product have Reproductive toxicity

> been shown to cause birth defects and reproductive disorders in laboratory animals. These effects are linked only to high doses of this substance; low doses did not produce this adverse effect.

Reproductivity

NICOTINE Result: Developmental effects including cleft palate.

Species: Mouse

Result: Developmental toxicity.

Species: Rabbit

Result: Developmental toxicity.

Species: Rat

Material name: NICODERM CQ SDS IRELAND

^{*} Estimates for product may be based on additional component data not shown.

Specific target organ toxicity -Nervous system.

single exposure

NICOTINE nervous system

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

NICOTINE Cardiovascular system **Aspiration hazard** Not likely, due to the form of the product.

Mixture versus substance

information

No information available.

Other information Caution - Pharmaceutical agent.

SECTION 12: Ecological information

The product contains a substance which may cause long-term adverse effects in the environment. 12.1. Toxicity

Contains a substance which causes risk of hazardous effects to the environment.

Test results Components **Species**

NICOTINE (CAS 54-11-5)

Aquatic

Acute

EC50 Crustacea Water flea (Daphnia pulex) 0.242 mg/l, 48 hours Static renewal test

Fish EC50 4 mg/l, 96 hours Rainbow trout (Adult Oncorhyncus

12.2. Persistence and

degradability

Biodegradability

Percent degradation (Aerobic biodegradation-ready)

NICOTINE 83.43 %, 28 days, OECD 301 CO2 evol

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

> **NICOTINE** 1.17

Bioconcentration factor (BCF)

NICOTINE 5

12.4. Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

2 Estimated NICOTINE

Mobility in general

Volatility

Henry's law

NICOTINE 0 atm m³/mol Estimated

12.5. Results of PBT

and vPvB assessment Not available.

Not available. 12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose in accordance with all applicable regulations.

Special precautions Dispose in accordance with all applicable regulations.

Material name: NICODERM CQ SDS IRELAND

^{*} Estimates for product may be based on additional component data not shown. Not available

SECTION 14: Transport information

General Classifications are for the material when offered for transport as fully regulated. Depending on

the specific transport details (Ship-From/Ship To locations, quantities being shipped, type of packaging and mode of transport) it may be possible to ship this material in a manner other than fully regulated. (One example is IATA Limited or Excepted Quantity. There are others.) Be sure to review all regulatory agency packaging instructions and special provisions, referenced in this

section, to identify options applicable to the specifics of your shipment.

ADR

14.1. UN number UN3077

14.2. UN proper shipping Environmentally hazardous substances, solid, n.o.s. (NICOTINE, FORMULATED PRODUCT)

name

14.3. Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9

Hazard No. (ADR) Not available.

Tunnel code Not available.

14.4. Packing group III **14.5. Environmental hazards** Yes

14.6. Special precautions Not available.

for user

IATA

14.1. UN number UN3077

14.2. UN proper shipping Environmentally hazardous substance, solid, n.o.s. (NICOTINE, FORMULATED PRODUCT)

name

14.3. Transport hazard 9

class(es)

Subsidiary class(es) 14.4. Packing group III
Labels required 9
14.5. Environmental hazards No.
ERG Code 9L

14.6. Special precautions

for user

Other information

Cargo aircraft only Allowed.

Not available.

Additional Information:

Passenger & cargo Allowed.

IMDG

14.1. UN number UN3077

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (NICOTINE, FORMULATED

ame PRODUCT)

14.3. Transport hazard class(es)

Class 9
Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards
Marine pollutant No.

Marine pollutant No.

EmS F-A, S-F

14.6. Special precautions Not available.

for user

14.7. Transport in bulk according to Annex II of MARPOL Annex II applies to liquids used in a ship's operation that pose a threat to the marine environment. These materials may not be transported in bulk. **MARPOL73/78 and the IBC Code**

ADR; IATA; IMDG



Material name: NICODERM CQ SDS IRELAND

Marine pollutant



General information

Classifications are for the material when offered for transport as fully regulated. Depending on the specific transport details (Ship-From/Ship To locations, quantities being shipped, type of packaging and mode of transport) it may be possible to ship this material in a manner other than fully regulated. (One example is IATA Limited or Excepted Quantity. There are others.) Be sure to review all regulatory agency packaging instructions and special provisions, referenced in this section, to identify options applicable to the specifics of your shipment.

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

Not listed.

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

Not listed.

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

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended NICOTINE (CAS 54-11-5)

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended NICOTINE (CAS 54-11-5)

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed

Regulation (EC) No. 1907/2006, REACH Article 59(1) 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.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work NICOTINE (CAS 54-11-5)

Directive 94/33/EC on the protection of young people at work

NICOTINE (CAS 54-11-5)

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. Pregnant women should not work with the product, if there is the least risk of exposure.

Material name: NICODERM CQ SDS IRELAND

National regulations Young people under 18 years old are not allowed to work with this product according to the EU

Directive 94/33/EC on the protection of young people at work. 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

Not available.

References

GSK Hazard Determination

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 statements or R-phrases and H-statements under Sections 2 to 15

R22 Harmful if swallowed.

R25 Toxic if swallowed.

R27 Very toxic in contact with skin. R41 Risk of serious damage to eyes. R50 Very toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R62 Possible risk of impaired fertility.

R63 Possible risk of harm to the unborn child.

H301 Toxic if swallowed. H310 Fatal in contact with skin. H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Revision information Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: TOXICOLOGICAL INFORMATION:

Transport Information: Material Transportation Information

Regulatory Information: United States

GHS: Classification

Training information

Follow training instructions when handling this material.

Disclaimer

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and

the suitability of the material or product for any particular purpose.

Material name: NICODERM CQ SDS IRELAND