

SAFETY DATA SHEET NITOCOTE EN901 BASE

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

1.1. Product identifier

Product name NITOCOTE EN901 BASE

Product number A1748122UK9

UFI: JR50-70X3-D003-D00Q

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

Identified uses Base Component of Two-Part Epoxy Bonding System

1.3. Details of the supplier of the safety data sheet

Manufacturer Fosroc International Limited

Drayton Manor Business Park

Coleshill Road Tamworth Staffordshire B78 3XN England

Tel: +44 (0) 1827 262222 Fax: +44 (0) 1827 262444 enquiryuk@fosroc.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1827 265 279 (Monday-Sunday 24 hours a day)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

Human health May cause skin sensitisation or allergic reactions in sensitive individuals.

Environmental The product contains a substance which may have hazardous effects on the environment.

2.2. Label elements

Hazard pictograms





Signal word Warning

NITOCOTE EN901 BASE

Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements P273 Avoid release to the environment.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/ container in accordance with national regulations.

Contains EPOXY NOVOLAC RESIN, PARATERTIARY BUTYL PHENYL GLYCIDYL ETHER

Supplementary precautionary

statements

P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EPOXY NOVOLAC RESIN 30-60%

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

TITANIUM DIOXIDE 10-30%

CAS number: 13463-67-7 EC number: 236-675-5 REACH registration number: 01-

2119489379-17-XXXX

Classification

Not Classified

PARATERTIARY BUTYL PHENYL GLYCIDYL ETHER

5-10%

Classification

Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

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The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical

attention if any discomfort continues.

Ingestion Remove affected person from source of contamination. Move affected person to fresh air and

keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash

skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact Remove affected person from source of contamination. Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to

rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation May cause respiratory system irritation.

Ingestion May cause discomfort if swallowed.

Skin contact Skin irritation. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact Irritation of eyes and mucous membranes.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

products

firefighting

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards No unusual fire or explosion hazards noted.

Hazardous combustion

Carbon monoxide (CO). Oxides of carbon. Thermal decomposition or combustion may

liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during

No specific firefighting precautions known. Control run-off water by containing and keeping it

out of sewers and watercourses.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Spillages or uncontrolled

discharges into watercourses must be reported immediately to the Environmental Agency or

other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area

with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions For professional users only. Provide adequate ventilation. Avoid the formation of mists. Avoid

inhalation of vapours/spray and contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in

the original container.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

TITANIUM DIOXIDE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

WEL = Workplace Exposure Limit.

TITANIUM DIOXIDE (CAS: 13463-67-7)

DNEL Industry - Inhalation; Long term local effects: 10 mg/m³

Consumer - Oral; Long term systemic effects: 700 mg/kg/day

PNEC - Fresh water; 0.127 mg/l

- Sediment (Freshwater); >=1000 mg/kg

- marine water; 1 mg/l

- Sediment (Marinewater); >= 100 mg/kg

Soil; 100 mg/kgSTP; 100 mg/l

PARATERTIARY BUTYL PHENYL GLYCIDYL ETHER (CAS: 3101-60-8)

DNEL Workers - Inhalation; Long term, Short term systemic effects: 19.6 mg/m³

Workers - Inhalation; Long term local effects: 19.6 mg/m³

Workers - Dermal; Long term, Short term systemic effects: 5.6 mg/kg/day Workers - Dermal; Long term, Short term local effects: 1.6 μg/cm2

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PNEC - Fresh water; 7.5 µg/l

- marine water; 0.75 µg/l

- STP; 100 mg/l

8.2. Exposure controls

Protective equipment





Appropriate engineering

controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates

eye contact is possible. The following protection should be worn: Chemical splash goggles or

face shield.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if

> a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Butyl rubber. Nitrile rubber. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the

breakthrough time of the glove material.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective

clothing in case of contact.

Hygiene measures Wash at the end of each work shift and before eating, smoking and using the toilet. Wash

> promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Do not eat, drink or smoke when using this product. Do not smoke in work

area.

Respiratory protection No specific recommendations. Respiratory protection may be required if excessive airborne

contamination occurs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Viscous liquid.

Colour Grey.

Odour Mild.

Not determined. Odour threshold

Ηq Not determined.

Initial boiling point and range > 200°C @ 101 kPa

150°C Flash point

Not determined. **Evaporation rate**

Evaporation factor Not determined.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Melting point

Not determined.

Not determined.

Other flammability Not applicable.

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Vapour pressure Not determined.

Vapour density Not determined.

Relative density 1.54 @ 20°C

Bulk density Not applicable.

Solubility(ies) Insoluble in water.

Partition coefficient Not applicable.

Auto-ignition temperature Not determined.

Decomposition Temperature Not determined.

Viscosity Not determined.

Explosive properties Not considered to be explosive.

Explosive under the influence

of a flame

Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The reactivity data for this product will be typical of those for the following class of materials:

Epoxides.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition Whe

products

When heated, vapours/gases hazardous to health may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation Gas or vapour may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Irritating to skin. May cause sensitisation by skin contact.

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Eye contact Irritating to eyes.

Route of exposure Skin and/or eye contact

Toxicological information on ingredients.

TITANIUM DIOXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅o

5,000.0

mg/kg)

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation

6.82

(LC50 dust/mist mg/l)

Species Rat

ATE inhalation 6.82

(dusts/mists mg/l)

SECTION 12: Ecological information

Ecotoxicity The product contains a substance which is toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

12.1. Toxicity

Toxicity The product contains a substance which is harmful to aquatic organisms.

Ecological information on ingredients.

TITANIUM DIOXIDE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >1000 mg/l mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: >100 mg/l mg/l, Daphnia magna

PARATERTIARY BUTYL PHENYL GLYCIDYL ETHER

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 7.5 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

plants

EC₅o, 72 hours: 9 mg/l, Pseudokirchneriella subcapitata

12.2. Persistence and degradability

Persistence and degradability The product is not expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not applicable.

Ecological information on ingredients.

TITANIUM DIOXIDE

NITOCOTE EN901 BASE

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility The product is immiscible with water and will sediment in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

Ecological information on ingredients.

PARATERTIARY BUTYL PHENYL GLYCIDYL ETHER

Results of PBT and vPvB

This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste.

Disposal methodsDispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

(ADR/RID)

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY

NOVOLAC RESIN, PARATERTIARY BUTYL PHENYL GLYCIDYL ETHER)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY

NOVOLAC RESIN, PARATERTIARY BUTYL PHENYL GLYCIDYL ETHER)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY

NOVOLAC RESIN, PARATERTIARY BUTYL PHENYL GLYCIDYL ETHER)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY

NOVOLAC RESIN, PARATERTIARY BUTYL PHENYL GLYCIDYL ETHER)

14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M6

ADR/RID label 9

IMDG class 9

ICAO class/division 9

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ADN class 9

Transport labels



14.4. Packing group

ADR/RID packing group III
IMDG packing group III
ICAO packing group III
ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number 90

(ADR/RID)

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

National regulations The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as

amended).

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

NITOCOTE EN901 BASE

General information The user must be instructed in the proper work procedure and be familiar with the contents of

these instructions.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 24/11/2020

Revision 3c

Supersedes date 16/08/2019

Hazard statements in full H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.



SAFETY DATA SHEET NITOCOTE EN901 HARDENER

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

1.1. Product identifier

Product name NITOCOTE EN901 HARDENER

Product number A1748067UK9

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

Identified uses Hardener component of two part epoxy based surface coating system.

1.3. Details of the supplier of the safety data sheet

Supplier Fosroc International Limited

Drayton Manor Business Park

Coleshill Road Tamworth Staffordshire B78 3XN England

Tel: +44 (0) 1827 262222 Fax: +44 (0) 1827 262444 enquiryuk@fosroc.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1827 265 279 (Monday-Sunday 24 hours a day)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

Human health Prolonged or repeated contact with skin may cause redness, itching, irritation and

eczema/chapping. The product contains a small amount of sensitising substance. May cause

skin sensitisation or allergic reactions in sensitive individuals.

Environmental The product contains a substance which is harmful to aquatic organisms and which may

cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Hazard pictograms







Signal word Danger

NITOCOTE EN901 HARDENER

Hazard statements H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements P260 Do not breathe vapour/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/ container in accordance with national regulations.

Contains BENZYL ALCOHOL, ISOPHORONEDIAMINE

Supplementary precautionary

P261 Avoid breathing vapour/ spray.

statements

P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.

P310 Immediately call a POISON CENTER/ doctor.
P314 Get medical advice/ attention if you feel unwell.
P321 Specific treatment (see medical advice on this label).

P330 Rinse mouth.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

BENZYL ALCOHOL 60-100%

CAS number: 100-51-6 EC number: 202-859-9 REACH registration number: 01-

2119492630-38

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Irrit. 2 - H319

ISOPHORONEDIAMINE 10-30%

CAS number: 2855-13-2 EC number: 220-666-8 REACH registration number: 01-

2119514687-32-xxxx

Classification

Acute Tox. 4 - H302

Acute Tox. 4 - H312

Skin Corr. 1B - H314

Eye Dam. 1 - H318

Skin Sens. 1 - H317

Aquatic Chronic 3 - H412

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove affected person from source of contamination. Move affected person to fresh air and

keep warm and at rest in a position comfortable for breathing. Get medical attention if any

discomfort continues.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse

mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash

skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after

washing.

Eye contact Remove affected person from source of contamination. Rinse immediately with plenty of

water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse

for at least 15 minutes. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation Difficulty in breathing. Coughing, chest tightness, feeling of chest pressure. May cause an

asthma-like shortness of breath. Severe irritation of nose and throat. Headache. Nausea,

vomiting.

Ingestion May cause chemical burns in mouth and throat.

Skin contact May cause sensitisation by skin contact. May cause serious chemical burns to the skin.

Eye contact Eye contact may cause serious and potentially irreversible injuries.

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

Notes for the doctorTreat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Harmful to aquatic life with long lasting effects. Keep upwind to avoid inhalation of gases,

vapours, fumes and smoke. Water used for fire extinguishing, which has been in contact with

the product, may be corrosive.

Hazardous combustion

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours. Oxides of nitrogen. Ammonia or amines.

5.3. Advice for firefighters

Protective actions during

firefighting

Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and

watercourses. Contain and collect extinguishing water.

Special protective equipment

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

for firefighters clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with

skin and eyes. Avoid inhalation of vapours. Provide adequate ventilation. Do not touch or walk

into spilled material.

6.2. Environmental precautions

Environmental precautions Avoid or minimise the creation of any environmental contamination. Avoid the spillage or

runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate

regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Do not touch or walk into spilled material. Stop leak if possible without risk. Absorb spillage

with inert, damp, non-combustible material. Collect and place in suitable waste disposal

containers and seal securely.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Avoid inhalation of vapours/spray and contact with skin and

eyes. Under certain conditions, the material can form nitrosamines. Nitrosamines are

carcinogenic in animal studies.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in

the original container.

Storage class Corrosive storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Ingredient comments WEL = Workplace Exposure Limits

BENZYL ALCOHOL (CAS: 100-51-6)

DNEL Workers - Inhalation; Short term systemic effects: 110 mg/m³

Workers - Inhalation; Long term systemic effects: 22 mg/m³ Workers - Dermal; Short term systemic effects: 40 mg/kg bw/day Workers - Dermal; Long term systemic effects: 8 mg/kg bw/day

PNEC - Fresh water; 1 mg/l

- marine water; 0.1 mg/l

- STP; 39 mg/l

ISOPHORONEDIAMINE (CAS: 2855-13-2)

PNEC - marine water; 0.006 mg/l

- Fresh water; 0.06 mg/l

- Soil; 1.121 mg/kg

8.2. Exposure controls

Protective equipment





Appropriate engineering

controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational

exposure limits for the product or ingredients.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates

eye contact is possible. The following protection should be worn: Chemical splash goggles or

face shield.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if

> a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374. Butyl rubber. Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the

breakthrough time of the glove material.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective

clothing in case of contact.

Hygiene measures Provide eyewash station and safety shower. Do not smoke in work area. Wash at the end of

each work shift and before eating, smoking and using the toilet. Promptly remove any clothing

that becomes contaminated. Wash promptly with soap and water if skin becomes

contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat,

drink or smoke.

Respiratory protection No specific recommendations. Respiratory protection may be required if excessive airborne

contamination occurs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid. Colour Amber.

Odour Amine.

Нα pH (concentrated solution): >7

Melting point Not determined.

Initial boiling point and range 222°C @ 101 kPa

Flash point 104°C

Not determined. **Evaporation rate**

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Odour threshold

Not determined.

Not determined.

NITOCOTE EN901 HARDENER

Other flammability Not determined.

Vapour pressure 0.02 kPa @ 20°C

Vapour density Not determined.

Relative density 1.04 @ 20°C

Bulk density Not applicable.

Solubility(ies) Slightly soluble in water.

Partition coefficient Not available.

Auto-ignition temperature Not determined.

Decomposition Temperature Not determined.

Explosive properties Not considered to be explosive.

Explosive under the influence

of a flame

Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Acids. Alkalis. Strong reducing agents.

Under certain circumstances, nitrosamines can form in contact with nitrosating agents (e.g. nitrites, nitrous oxides). Nitrosamines were found to cause cancer in animal experiments.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

products

Not known. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong reducing agents. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours. Oxides of nitrogen. Ammonia or amines.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 1,148.94

Acute toxicity - dermal

ATE dermal (mg/kg) 4,400.0

NITOCOTE EN901 HARDENER

Acute toxicity - inhalation

ATE inhalation (dusts/mists

mg/l)

6.96

Skin corrosion/irritation

Animal data Slightly irritating.

Serious eye damage/irritation

Serious eye damage/irritation Risk of serious damage to eyes.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Inhalation Harmful by inhalation. May cause damage to mucous membranes in nose, throat, lungs and

bronchial system.

Ingestion Harmful if swallowed. May cause burns in mucous membranes, throat, oesophagus and

stomach.

Skin contact May cause an allergic skin reaction. Causes mild skin irritation. May be absorbed through the

skin. This is unlikely to occur but symptoms similar to those of ingestion may develop.

Eye contact Causes serious eye damage. May cause permanent damage if eye is not immediately

irrigated.

Route of exposure Inhalation Ingestion. Skin and/or eye contact

Target organs Kidneys

SECTION 12: Ecological information

Ecotoxicity The product contains a substance which is harmful to aquatic organisms and which may

cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Toxicity Ecotoxic to fish / daphnia / algae

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient Not available.

12.4. Mobility in soil

Mobility The product is partly soluble in water and may spread in the aquatic environment.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not relevant.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. When handling waste, the safety precautions

applying to handling of the product should be considered. Do not puncture or incinerate, even

when empty.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 2289

UN No. (IMDG) 2289

UN No. (ICAO) 2289

UN No. (ADN) 2289

14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

ISOPHORONEDIAMINE

Proper shipping name (IMDG) ISOPHORONEDIAMINE

Proper shipping name (ICAO) ISOPHORONEDIAMINE

Proper shipping name (ADN) ISOPHORONEDIAMINE

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C7

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group

ICAO packing group

ADN packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 3

Emergency Action Code 2X

Hazard Identification Number 80

(ADR/RID)

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Guidance Workplace Exposure Limits EH40.

Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms ATE: Acute Toxicity Estimate.

used in the safety data sheet DNEL: Derived No Effect Level.

Kow: Octanol-water partition coefficient. NOAEL: No Observed Adverse Effect Level.

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration. vPvB: Very Persistent and Very Bioaccumulative.

General information For professional users only. The user must be instructed in the proper work procedure and be

familiar with the contents of these instructions.

Revision comments Revised formulation.

Revision date 16/08/2019

Revision 5

Supersedes date 25/05/2017

SDS number 12068

Hazard statements in full H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.