

# SAFETY DATA SHEET

In accordance with 1907/2006 Annex II (2015/830) and 1272/2008  
(All references to EU regulations and directives are abbreviated into only the numeric term)

Issued 2017-09-25

Replaces issued SDS 2015-11-26

Version number 2.0



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

### 1.1. Product identifier

Trade name Isoglasyr 11 P

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

Identified uses Asphalt varnish

### 1.3. Details of the supplier of the safety data sheet

Company NCC Roads AB BINAB  
Torvmossevägen 40  
190 60 Stockholm-Arlanda  
Sweden

Telephone 08-632 16 00

E-mail info.binab@ncc.se

### 1.4. Emergency telephone number

Acute cases: Call 112, request poison information.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Flammable liquids (Category 3), H226

Skin Irritant (Category 2), H315

Acute toxicity (Category 4 gas), H332

### 2.2. Label elements

Hazard pictogram



Signal word Warning

Hazard statements

H226 Flammable liquid and vapour

H315 Causes skin irritation

H332 Harmful if inhaled

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P261 Avoid breathing mist or vapours

P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves

P312 Call a a POISON CENTER if you feel unwell

P501 Dispose of contents and container to authorised waste disposal facility

### 2.3. Other hazards

Heated product may cause burns.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
<b>XYLENE</b>		
CAS No: 1330-20-7 EC No: 215-535-7 Index No: 601-022-00-9 REACH: 01-2119488216-32	Flam Liq 3, Acute Tox 4 <i>dermal</i> , Acute Tox 4 <i>vapour</i> , Skin Irrit 2; H226, H312, H332, H315	40 - 70 %
<b>ASPHALT</b>		
CAS No: 8052-42-4 EC No: 232-490-9		30 - 50 %
<b>POLYMER</b>		
CAS No: 106107-54-4		1 - 5 %
<b>AMINES</b>		
CAS No: 68603-64-5 EC No: 271-669-6	Skin Irrit 2, Eye Dam 1, Aquatic Acute 1; H315, H318, H400	<1 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Generally

Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

In case of concern, or if symptoms persist, call a doctor/physician.

#### Upon breathing in

Allow the injured person to rest in a warm place with fresh air, if symptoms persist seek medical attention.

#### Upon eye contact

Remove solid particles.

Remove contact lenses immediately if possible.

Rinse the eye for several minutes with lukewarm water. Contact a physician.

#### Upon skin contact

Remove contaminated clothes.

Wash the skin with soap and water.

If symptoms occur, contact a physician.

#### Upon ingestion

Immediately drink a couple glasses of water, milk or cream.

DO NOT induce vomiting.

Upon ingestion of larger amounts, consult a doctor/physician.

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

#### Upon breathing in

Harmful if inhaled.

#### Upon skin contact

Irritation may occur.

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

Symptomatic treatment.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

#### Recommended extinguishing agents

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

#### Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

### 5.2. Special hazards arising from the substance or mixture

In case of fire, high pressure may build up causing the packaging to explode.

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.

### 5.3. Advice for fire-fighters

In case of fire use a respirator mask.

Protective measures should be taken regarding other material at the site of the fire.

Cool closed containers that were exposed to fire with water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation and exposure to skin and eyes.

Use recommended safety equipment, see section 8.

Switch off equipment which has an exposed flame, glows, or has a heat source of some other kind.

Ensure good ventilation.

### 6.2. Environmental precautions

Avoid emissions into soil, water or air.

Avoid discharge into sewers.

Dam up the spillage to prevent it reaching street sewers or flowing into the ground.

### 6.3. Methods and material for containment and cleaning up

Do not use water for the sanitizing.

Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority sanitisation works. Present this safety data sheet.

Absorb the liquid with an inert absorbent, vermiculite, for example. Collect the material for disposal at a waste disposal facility.

Destruct according to the local directions.

### 6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Do not inhale the fumes and avoid exposure to skin, eyes and clothing.

Store this product separately from food items and keep it out of the reach of children and pets.

Handle in premises with good ventilation.

Do not eat, drink or smoke in premises where this product is handled.

Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in Section 6 of this safety data sheet.

Open fire, hot items, sparks or other ignition sources must not be present in the environment used for handling this product.

Wash your hands after using the product.

Wash contaminated clothing before reuse.

Store as flammable material.

### 7.2. Conditions for safe storage, including any incompatibilities

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.

Store in a well-ventilated space.

### 7.3. Specific end uses

See identified uses in Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National limit values

##### XYLENE

#### United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 50 ppm / 220 mg/m<sup>3</sup>

Short term exposure limit (STEL) 100 ppm / 441 mg/m<sup>3</sup>

Note Sk, BMGV

##### ASPHALT

#### United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 5 mg/m<sup>3</sup>

Short term exposure limit (STEL) 10 mg/m<sup>3</sup>

Explanations of abbreviations are given in Section 16b

##### DNEL

##### XYLENE

	Type of exposure	Route of exposure	Value
Worker	Acute Local	Inhalation	289
Consumer	Chronic Systemic	Inhalation	14.8 mg/m <sup>3</sup>
Worker	Chronic Systemic	Dermal	180 mg/kg bw
Worker	Chronic Local	Inhalation	289 mg/m <sup>3</sup>
Worker	Chronic Systemic	Inhalation	77 mg/m <sup>3</sup>
Consumer	Acute Local	Inhalation	174 mg/m <sup>3</sup>
Consumer	Acute Systemic	Inhalation	174 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Oral	1.6 mg/kg bw
Consumer	Chronic Systemic	Dermal	108 mg/kg bw

## PNEC

### XYLENE

Environmental protection target	PNEC value
Fresh water	0.327 mg/L
Freshwater sediments	12.46 mg/kg dw
Marine water	0.327 mg/L
Marine sediments	12.46 mg/kg dw
Microorganisms in sewage treatment	6.58 mg/L
Soil (agricultural)	2.31
Intermittent	0.327 mg/L

### 8.2. Exposure controls

In terms of minimizing risks, attention must be paid to both the physical and health hazards (see Sections 2, 10 and 11) of this product according to EU directives 89/391 and 98/24 and national occupational legislation.

#### 8.2.1. Appropriate engineering controls

The place of work shall primarily be planned so that personal protective equipment is only required on irregular occasions, in case of servicing or breakdown, for example.

Handle in premises which have modern ventilation standards.

Maintenance and service of personal protective equipment shall be included in the works plan for internal supervision. All inspections and remedial measures shall be documented.

Emergency showers and eye-rinsing facilities must be available at the workplace.

#### Eye/face protection

Eye protection should be worn if there is any danger of direct exposure or splashing.

#### Skin protection

Protect all exposed skin from coming into contact with the product.

Do not use clothing made of synthetic material which may give rise to static electricity.

Use protective gloves of butyl rubber, Viton or fluorine rubber, or get advice from an occupational medical expert about alternative materials. Show this safety data sheet.

Use suitable protective clothing.

#### Respiratory protection

Use proper protective breathing equipment in case of insufficient ventilation.

A breathing mask of the A filter (brown) type, may be required.

#### 8.2.3. Environmental exposure controls

For limitation of environmental exposure, see Section 12.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- |                                 |                                       |
|---------------------------------|---------------------------------------|
| a) Appearance                   | Form: liquid. Colour: brownish black. |
| b) Odour                        | aromatic-spicy                        |
| c) Odour threshold              | Not indicated                         |
| d) pH                           | Not indicated                         |
| e) Melting point/freezing point | Not indicated                         |

f) Initial boiling point and boiling range	Not indicated
g) Flash point	32.5 °C
h) Evaporation rate	Not indicated
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Lower explosion limit 1% Upper explosion limit 8%
k) Vapour pressure	Not indicated
l) Vapour density	Not indicated
m) Relative density	0.930 kg/L
n) Solubility	Solubility in water: Insoluble Soluble in organic solvents
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	200 °C
q) Decomposition temperature	Not indicated
r) Viscosity	Not indicated
s) Explosive properties	Not applicable
t) Oxidising properties	Not applicable

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

### 10.2. Chemical stability

The product is stable at normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reactions known.

### 10.4. Conditions to avoid

Avoid sources of ignition and excessive temperatures.

### 10.5. Incompatible materials

Insulation materials that may be subjected to drenching shall be replaced by non-absorbent quality.

### 10.6. Hazardous decomposition products

Irritating and toxic gases form at extremely high temperatures.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Note that the product is hazardous to health.

#### Acute toxicity

The product is a health hazard.

The product is classified as acute toxic.

Harmful when inhaled.

#### XYLENE

LD50 rabbit 24h: ≈ 4500 mg/kg Dermally

LC50 rat 4h: 5000 ppmV Inhalation

LD50 rat 24h: 4300 mg/kg Orally

#### Skin corrosion/irritation

Irritant to skin.

#### Serious eye damage/irritation

The criteria for classification cannot be considered fulfilled based on available data.

The mixture is judged as a whole and is classified to be neither corrosive nor irritant to the eyes. Mild irritation may occur on prolonged or repeated exposure.

#### Respiratory or skin sensitisation

The product is not classified as sensitising.

Hypersensitive reactions cannot be ruled out for persons who are overtly sensitive.

#### Germ cell mutagenicity

To the best of our knowledge, no mutagenic effects have been reported for this product.

#### Carcinogenicity

To the best of our knowledge, no carcinogenic effects have been reported for this product.

Certain cancer risks cannot be excluded during prolonged or repeated exposure.

#### Reproductive toxicity

To the best of our knowledge, no reproductive toxicity has been reported for this product.

**STOT-single exposure**

The criteria for classification cannot be considered fulfilled based on available data.

**STOT-repeated exposure**

The criteria for classification cannot be considered fulfilled based on available data.

**Aspiration hazard**

The criteria for classification cannot be considered fulfilled based on available data.

The product is not classified as being toxic for aspiration.

## SECTION 12: Ecological information

**12.1. Toxicity**

May cause harmful long-term effects in the aquatic environment on continuous release to the environment.

**XYLENE**

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h: 7.6 mg/l

LC50 Freshwater water flea (*Daphnia magna*) 48h: 3.6 mg/L

IC50 Algae 72h: 3.2 mg/l

**12.2. Persistence and degradability**

There is no information regarding persistence or degradability.

**12.3. Bioaccumulative potential**

There is no information regarding bioaccumulation.

**12.4. Mobility in soil**

Information about mobility in nature is not available.

**12.5. Results of PBT and vPvB assessment**

No chemical safety report has been executed.

**12.6. Other adverse effects**

No known effects or hazards.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Waste handling of the product**

Small quantities are not normally recycled. In the case of larger quantities, contact the distributor.

The product is flammable and its waste shall therefore, if it is not treated in order to eliminate this risk, be considered to be dangerous.

Final disposal of this product should be carried out by a company authorised to deal with hazardous waste.

Not completely empty packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely empty packaging can be recycled.

Also take local regulations for dealing with waste into account.

See also national waste regulations.

## SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

**14.1. UN number**

1999

**14.2. UN proper shipping name**

TARS, LIQUID

**14.3. Transport hazard class(es)**

**Class**

3: Flammable liquids

**Classification code (ADR/RID)**

F1: Flammable liquids having a flash-point of or below 60 °C

**Subsidiary risk (IMDG)**

No subsidiary risk according to IMDG

**Labels**



#### 14.4. Packing group

Packing group III

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

##### Tunnel restrictions

Tunnel category: D/E

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

#### 14.8 Other transport information

Transport category: 3; Maximum total quantity per transport unit: 1000 kgs or litres

Stowage category not indicated (IMDG)

## SECTION 15: Regulatory information

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

Not indicated.

#### 15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

## SECTION 16: Other information

#### 16a. Indication of where changes have been made to the previous version of the safety data sheet

##### Revisions of this document

Earlier versions

2015-11-26 Revisions of this document has, where not otherwise stated, been caused by changes in the regulations

#### 16b. Legend to abbreviations and acronyms used in the safety data sheet

##### Full texts for Hazard Class and Category Code mentioned in section 3

Flam Liq 3	Flammable liquids (Category 3)
Acute Tox 4 <sub>dermal</sub>	Acute toxicity (Category 4 skin)
Acute Tox 4 <sub>vapour</sub>	Acute toxicity (Category 4 vapours)
Skin Irrit 2	Skin Irritant (Category 2)
Eye Dam 1	Irreversible Eye Effects (Category 1)
Aquatic Acute 1	Very toxic to aquatic life (Category Acute 1)

#### Explanations of the abbreviations in Section 8

##### United Kingdom

Sk Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity

BMGV

#### Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

IMDG International Maritime Dangerous Goods Code

ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)

IATA The International Air Transport Association

Tunnel restriction code: D/E; Transport by bulk or via tank: Passage forbidden through tunnels of category D and E, Other transportation means: Passage forbidden through tunnels of category E

Transport category: 3; Maximum total quantity per transport unit: 1000 kgs or litres

#### 16c. Key literature references and sources for data

##### Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2017-09-25.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

##### Full texts for Regulations mentioned in this Safety Data Sheet

1907/2006 Annex II (2015/830) COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration,

1272/2008	Evaluation, Authorisation and Restriction of Chemicals (REACH) 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
EH40/2005	EH40/2005 Workplace exposure limits
89/391	COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work
98/24	COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)
1907/2006	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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

**16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification**

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

**16e. List of relevant hazard statements and/or precautionary statements**

**Full texts for hazard statements mentioned in section 3**

H226 Flammable liquid and vapour  
H312 Harmful in contact with skin  
H332 Harmful if inhaled  
H315 Causes skin irritation  
H318 Causes serious eye damage  
H400 Very toxic to aquatic life

**16f. Advice on any training appropriate for workers to ensure protection of human health and the environment**  
**Warning for misuse**

This product can cause injuries if not used properly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with its intended use.

**Other relevant information**

**Editorial information**



This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, [www.kemrisk.se](http://www.kemrisk.se)