NORSEKEM
APPLIED CONCRETE TECHNOLOGY

Safety Data Sheet

NORSEKEM LIMITED, UNIT 6c, STOKES FARM,
BINFIELD ROAD, WOKINGHAM, BERKS, RG40 5PR
TEL: 01189 899729 FAX: 01189 791927
sales@norsekem.co.uk www.norsekem.co.uk

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier **NORSEKEM FORMSEAL PU 1K**

Manufacturer/Supplier:

Norsekem Ltd
Unit 6c Stokes Farm
Binfield Road
Wokingham
Berkshire, RG40 5PR
Email: safety@norsekem.co.uk

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS02 flame

Flam. Liq 3 H226 Flammable liquid and vapour

GHS08 health hazard

H334 may cause allergy systems or breathing difficulties

Carc.2 H351 Suspected of causing cancer'

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure' Route of Inhalation

Asp. Tox. I H 304 May be fatal if swallowed and enters airways

GHS07

Acute Tox' 4 H332 Harmful if inhaled

Skin Irrit .2 H315 Causes skin irritation

Eye Irrit. 2 H319 Causes serious eye irritation

SkinSens. 1 H317 May cause an allergic skin reaction'

STOT SE 3 May cause respiratory irritation.

Aquatic Chronic 3 - Harmful to aquatic life with long lasting effects (when uncured)

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Label elements

Labelling according to Regulation (EC) No 1272/2008

This product is classified and labelled according to the CLP regulation.

Hazard Pictograms

GHS02 GHS07 GHS08

Signal word HARMFUL

Hazard-determining components of labelling:
Diphenylmethanediisoyanate, isomers and homologues
Xylene, mixture of isomers
Hydrocarbons, C9, aromatic, ethylenzene

Hazard Statements

H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H315 Causes skin imitation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure. By inhalation
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101	lf medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P210	Keep away from heat/sparks /open. Flames/hot surfaces. - NO smoking.
P233	Keep container tightly closed.
P260	Do not breathe mist/vapours/spray.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P405	Store locked up.

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

Additional information:

Contains isocyanates. May produce an allergic reaction.

Other hazards

Persons already sensitised to di-isocyanates may develop allergic reactions when using this product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

This product should not be used under conditions of poor ventilation unless a protective mask with an

appropriate gas filter (i.e. type Al according to standard EN 14387) is used.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterisation: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:

CAS:9016-87-9 EC number: 618-498-9	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373 Acute Tox, 4, H332; Skin irrit. 2, H315; Eye Irrit. 2, H319 Skin sens 1 H317; STOT SE 3, H335	20-50%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr. : 01-21194861 36-34 01-21 19488216-32	Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin irrit. 2, H315; Eye Irrit. 2, H319: STOT SE 3, H335	25-50%
CAS. 64742-95-6 EC number: 918-668-5 Reg.No: 01-21 1945585 1-35	Flam. Liq. 2, H226; Asp. Tox 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	10-25%
CAS. 25322-69-4 NLP 500-039-8	Acute Tox. 4, H302	10-25%
CAS:100-41-4 EINECS: 202-849-4 Reg.nr. : 01-2119189370-35 02-21 19752523-40	ethylbenzene F R11	2.5-10%

Additional information: For the wording of the listed risk phrases refer to section 16.

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4. FIRST AID MEASURES

Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

In case of it regular breathing or respiratory arrest provide artificial respiration.

Immediately remove any clothing soiled by the product.

After inhalation

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Use skin protection cream for skin protection.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

Call a doctor immediately

After swallowing: Do not induce vomiting; call for medical help immediately.

Information. for doctor:

Most important symptoms and effects, both acute und delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Violent reaction with water at higher temperatures.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special Hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide and carbon dioxide, Nitrogen oxides Q,{Ox) Hydrogen cyanide (HCN)

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Advice for Fire fighters

Protective equipment:

Wear self- contained respiratory protective device.

Wear fully protective suit.

Do not inhale explosion gases or combustion gases.#

Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Avoid contact with the eyes and skin.

Ensure adequate ventilation

Do not inhale gases /fumes / aerosols.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Keep away from ignition sources.

Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Absorb with liquid-binding materiel (sand, diatomite, acid binders, universal binders, sawdust).

Pls. refer to section I0

Do not seal receptacle gas tight.

Danger of bursting.

Dispose contaminated material as waste according to item I3.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section l3 for disposal information.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace

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Avoid contact with the eyes and skin
Do not inhale gases / fumes / aerosols.
(Use respiratory protective device against the effects of fumes/dust/aerosol.
Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.
Fumes can combine with air to form an explosive mixture.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
Conditions for safe storage, including any incompatibilities
'Storage:
Requirements to be met by storerooms and receptacles:
Store only in the original receptacle.
Adhere to the provisions of the Law on Water Protection.
Information about storage in one common storage facility:
Pls. refer to section l0
Keep away from foodstuff, beverages and feed.
‘Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
Protect from heat and direct sunlight.
Keep ignition sources away - Do not smoke.
Anti- explosion protection required
Recommended storage temperature: + l5 °C - +25 °C
Specific end use(s) No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.
Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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9016-87 Diphenylmethanediisoyanate, isomers and homologues	
WEL (Great Britain)	Short-term value: 0.07 mg/m3 Long-term value: 0.02 mg/m3 Sen; as –NCO
1330-20-7 xylene, mixture of isomers	
WEL (Great Britain) IOELV (EU)	Short-term value: 441 mg/m3, 100 ppm Long-term value: 220 mg/m3, 50 ppm SK; BMGV Short-term value: 442 mg/m3, 100 ppm Long-term value: 221 mg/m3, 50 ppm Skin
100-41-4 ethylbenzene	
WEL (Great Britain) IOELV (EU)	Short-term value: 552 mg/m3, 125 ppm Long-term value: 441 mg/m3, 100 ppm SK Short-term value: 884 mg/m3, 200 ppm Long-term value: 142 mg/m3, 100 ppm Skin

DNELS		
1330-20-7 xylene, mixture of isomers		
Oral	Long-term exposure - systemic effects	1.6 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	108 mg/kg bw/day (general population) 180 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - local effects	174 mg/m3 (general population) 289 mg/m3 (worker)
	Acute/short-term exposure - systemic effects	174 mg/m3 (general population) 289 mg/m3 (worker)
	Long-term exposure - systemic effects	` 14.8 mg/m3 (general population) 77 mg/mr (worker)
64742-9 5-6 Hydrocarbons, C9, aromatics		
Oral	Long-term exposure - systemic effects	11 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	11 mg/kg bw/day (general population 25 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	32 mg/m3 (general population) 150 mg/m3 (worker)

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100-41-4 ethylbenzene		
Oral Dermal Inhalative	Long-term exposure - systemic effects Long-term exposure - systemic effects Acute/short-term exposure - local effects Long-term exposure - systemic effects	1.6 mg/kg btu/day (general population) 180 mg/kg bw/day (worker) 293 mg/m3 (worker) I5 mg/m3 (general population) 77 mg/m3 (worker)

PNECS

1330-20-7 xylene, mixture of isomers

PNEC STP	6.s8 mg/t o
PNEC aqua	0. 3 2 7 mg/l (freshwater) 0.327 mg/l (marine water) 0. 3 2 7 mg/l (intermittent releases)
PNEC sediment	12. 4 6 mg/kg (freshwater) 12. 46 mg/kg (marine water)

100-4 1 -4 etlty lbenzene

PNEC aqua	9.6 mg/l (-)
PNEC oral	0.1 mg/l (freshwater) 0.0 1 mg/l (marine water) 0.1 mg/l (intermittent releases)
PNEC oral	0.02 mg/kg (-)
P N EC sediment	13.7 mg/kg (freshwater) 2.68 mg/kg (marine water)
PNEC soil	2.68 mg/kg (soil dw)

Ingredients with biological limit values:

1330-20-7 xylene, mixture of isomers

BMGV (Great Britain)	65 0 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuricacid

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

General Information

Form:	Fluid
Colour:	Brown
Odour:	Like aromatic
pH-value:	Not determined

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point{Boiling range:	137°C
Flash point:	30°C
Ignition Temp	355°C
Self-igniting:	Product is not self- igniting
Danger of explosion	Product is not explosive, however, formation of explosive air/vapour mixtures are possible

Explosion limits:

Lower:	0.7 Vol %
Upper:	7.5 Vol %
Vapour pressure:	Not determined
Density at 20 °C:	1 g/cm3
Vapour density	Not determined
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic:	Not determined.
Kinematic st 40 oC:	< 20.5 mm'/s (ISO 3104)
Other information	No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity	No decomposition if used according to specifications.
Chemical stability	No decomposition if used and stored according to specifications.

Possibility of hazardous reductions

Fumes can combine with air to form an explosive mixture.
Reacts with numerous chemical compounds, especially those with mobile hydrogen atoms.
Reacts with alcohols, amines, aqueous acids and alkalis.
Reacts with water.
Do not seal receptacle gas tight.
Danger of bursting.

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' Conditions to avoid No further relevant information available.

' Incompatible Materials : No further relevant information available.

Hazardous decomposition products: Formation of toxic gases is possible during heating or in case of. fire.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

LD/LC10 values relevunt for classification:		
9016-87-9 diphenymethanediisocyanate, ,isomeres and homologues		
Oral	LD 50	> 10000 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 9400 mg/kg (rabbit) (OECD 402)
Inhalative	LCs0/4h	1.5 mg/l (rat) (expert assessment, Dust/Mist)
	LC50 /4h	310 mg/m3 (rat) (OECD-403, Aerosol)
1330-20-7 xylene, mixture of isomers		
Oral	LD 50	> 4000 mg/kg (rat)
Dermal	LD 50	> 1700 mg/kg (rabbit)
Inhalative	LC50/4h	21,7 mg/l (rat) (Vapour)
	LCS0 /4h	5000 ppm (rat) (Gas)
64742-95-6 Hydrocarbons, C9, aromatics		
Oral	LD 50	> 3500 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 3160 mg/kg (rabbiA (OECD 402)
Inhalative	LCs0 /4h	> 6193 mg/n3 (rat) (OECD Guideline 403, vapour)
2 5 3 2 2-69-4 Prop ane- 1,2-diol, prop oxylated		
Oral	LD 50	>500 - < 2000 mg/kg (rat)
100-41-4 ethylbenzene		
Oral	LD5O	3500 mg/kg (rat)
Dermal	LD 50	> 5000 mg/kg (rabbit)
Inhalative	LCs0 /4h	17.2 mg/l (rat)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

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Subject to chronic toxicity:		
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues		
Inhalative	LOAEL NOAEL	I mg/m3 (rat) (OECD 453, 2 a, 6h/day, Aerosol) 0.2 mg/m3 (rat) (OECD 453, 2 a, 6h/day, Aerosol)

Additional toxicological information :

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

Sensitisation May cause sensitisation by inhalation and skin contact.

CMR effects (carcinogenifii, mutagenicity und toxicity for reproduction)

Limited evidence of a carcinogenic effect.

Carc. 2

Carcinogenicity		
9016-87-9 diphenylmethanediisocyanate isomeres and homologues		
Inhalative	LOAEL Carcinogenicity	6 mg/m3 (rat) (OECD 453, 2a, 6h/day, Aerosol)

Reproductive toxicity/Fertility No information available.

" Reproductive toxicity/Teratogenicily		
9016-87-9 dliphenylmethanediisocyanate isomers and homologues		
Inhalative	NOAEL (developmental toxicity NOAEL (teratogeniciy) NOAEL (maternally)	0.004 mg/l (rat) (OECD 414, 20d, 6h/day, Aerosol) 0.012 mg/l (rat) (OECD 414, 20d, 6h/day, Aerosol) 0.004 mg/l (rat) (OECD 414, 20d, 6h/day, Aerosol)

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity:	
9016-87-9 diphenylmethanedikocyanate ,isomers and homologues	
EC5O	> 1000 mg/l (daphnia magna) (24h, OECD 202)
EC50/3h	> 100 mg/l (activated slugde) (OECD 209)
EC50/72h	> 1640 mg/l (scenedesmus subspicatus) (OECD-2}1)
LC50/96h (static)	> 1000 mg/l (danio rerio) (OECD 203)
NOEC	> l0 mg/l (daphnia magna) (21 d, OECD 202)

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1330-20-7 xylene mixture of isomers	
EC5O	> 175 mg/l (activated slugde)
EC50/48h	3.82 mg/l (daphnia magna)
EC50/72h	4, 7 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	7.6 mg/l (oncorhynchus mykiss)
NOEC	> 1.3 mg/l (oncorhynchus mykiss) (56 d)
64742-9 5-6 Hydrocarbons, C9, aromatics	
EL50/48h	3.2 mg/l (daphnia) (OECD Guideline 202, mobility)
EL50/72h	2.9 mg/l (Pseudokirchneriella subcapitata) (OECD Guideline 201)
LL50/96h	9.2 mg/l (oncorhynchus aguabonita) (OECD Guideline 203)
NOELR (aqua chron.)	2.144 mg/l (daphnia magna) (21d, calculated by a computer model)
100-41-4 ethylbenzene	
EC50/48h	2.4 mg/l (daphnia magna)
	> 5.2 mg/l (americamysis bahia)
EC50/72h	4. 6 mg/l (Pseudokirchneriell a subcapitata)
LC50/96h	4.2 mg/l (oncorhynchus mykiss)

Persistence and degradability

9016-87-9 diphenylmethanediisocyanate isomeres and homologues	
BSB	<10 % (activated slugde) (OECD 302 C)
Biodegradation	0 % (activated slugde) (28d, OECD 302 C)
1330-20-7 xylene, mixture of isomers	
Biodegradation	87.8 % O (28d)
64742-95-6 Hydrocarbons, C9, aromatics	
Biodegradation	> 70 94 O (OECD Guideline 301 F, 2Bd)
100-41-4 ethylbenzene	
Biodegradation	>70 % (-) (28 d)

Behaviour in environmental systems

Bio accumulative potential

9016-87-9 diphenylmethanediisocyanate isomers and homologues	
1330-20-7 xylene, mixture of isomers	
BCF	6 - 23.4 (-)
log Pow	>3 (-)
100-41-4 ethylbenzene	
log Pow	*3.1 (-)*

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Mobility in soil No further relevant information available

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13. DISPOSAL CONSIDERATION

Waste treatment methods

Recommendation

Must not be disposed together with household garbage, Do not allow product to reach sewage system.

Waste disposal key:

The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

European waste catalogue	
0801 11*	waste paint and varnish containing organic solvents or other dangerous substances

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

UN no

ADR/RID, IATA 1993

UN Proper Shipping Name 1993 FLAMMABLE LIQUID, N. O.S. (XYLENES, Solvent naphtha, (petroleum), light arom.)

Transport hazard class(es) 3. Flammable liquids.

ADR,IMDG,IATA

3 Flammable liquids.

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Packing group	**III**
ADR,IMDG,IATA	
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning : Flammable liquids.
EMS Number:	F-E,S-E
Transport in bulk according to Annex II of MARPOLT3/78 und the IBC Code	Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations:
European regulations
Directive 2004/42/EC 2004/42/IIA (i) (500) 494

National regulations:
Information about limitation of use:
Employment restrictions concerning juveniles must be observed'
Employment restrictions concerning pregnant and lactating women must be observed.
Other regulations, limitations and prohibitive regulations
REACH ((EC) No 1907/2006), Annex XVII, no 56.
Adhere to the Ordinances on the Prohibition of Certain Chemicals.
Chemical safe) assessment: A Chemical Safety Assessment has not been carried

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
Relevant phrases

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

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H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.
H411 Toxic to aquatic life with long lasting effects.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.