

1 Identification

- **1.1 Product identifier**
- **Trade name:**
Turf-Set 2K Non Slump
- **Product Group**
2-component polyurethane adhesive
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- Product category
PC1 Adhesives, sealants
- Application of the substance / the preparation
Adhesives

TURF-SET™ 2K NS
 • Non Slump

Details of the supplier of the safety data sheet

- **Distributor:**
Chemical Concepts
410 Pike Road
Huntingdon Valley, PA. 19006
Phone: 800.220.1966
chemical-concepts.com
- **Emergency Contact Number**
800-535-5053 (INFOTRAC)

2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- *Information concerning particular hazards for human and environment:*
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- *Classification system:*
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

Label elements

- **GHS label elements** Void
- *Hazard pictograms* Void
- *Signal word* Void
- *Hazard statements* Void
- **Classification system:**
- *NFPA ratings (scale 0 - 4)*



Health = 0
 Fire = 1
 Reactivity = 0

- *WHMIS-ratings (scale 0 - 4)*



HEALTH 0 Health = 0
 FIRE 1 Fire = 1
 REACTIVITY 0 Reactivity = 0

- *Results of PBT and vPvB assessment*
- *PBT:* Not applicable.
- *vPvB:* Not applicable.

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3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

64742-16-1	Flüssiges Kohlenwasserstoffharz	2.5-10%
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- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complications.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling** Avoid contact with the eyes.

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- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
 - *Requirements to be met by storerooms and receptacles:* No special requirements.
 - *Information about storage in one common storage facility:* Not required.
 - *Further information about storage conditions:* Store in dry conditions.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components 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.
- *Additional information:* The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
 - *General protective and hygienic measures:*

The usual precautionary measures for handling chemicals should be followed.
Wash hands before breaks and at the end of work.
 - *Breathing equipment:* Not necessary if room is well-ventilated.
 - *Protection of hands:* Not required.
 - *Material of gloves*
 - Butyl rubber, BR
 - Nitrile rubber, NBR
 - *Eye protection:* Goggles recommended during refilling.
 - *Body protection:* Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- *Appearance:*

<i>Form:</i>	Fluid
<i>Color:</i>	Green
- *Odor:* Characteristic
- *Odour threshold:* Not determined.
- **pH-value:** Not determined.
- **Change in condition**

<i>Boiling point/Boiling range:</i>	301 °C (574 °F)
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- **Flash point:** 127 °C (261 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 420 °C (788 °F)
- *Decomposition temperature:* Not determined.
- **Auto igniting:** Product is not selfigniting.

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- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower: Not determined.
 - Upper: Not determined.
- **Vapor pressure at 20 °C (68 °F):** 3 hPa (2 mm Hg)
- **Density at 20 °C (68 °F):** 1.55 g/cm³ (12.935 lbs/gal)
- *Relative density*: Not determined.
- *Vapour density*: Not determined.
- *Evaporation rate*: Not determined.
- **Solubility in / Miscibility with**
 - Water: Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic at 20 °C (68 °F): 160000 mPas
 - Kinematic: Not determined.
- **Solvent content:**
 - Organic solvents: 0.0 %
 - VOC Content: 0.00 %
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
 - *Primary irritant effect:*
 - *on the skin:* No irritant effect.
 - *on the eye:* No irritating effect.
 - *Sensitization:* No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- *Carcinogenic categories*

· **IARC (International Agency for Research on Cancer)**

1318-02-1 Zeolith A3

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· *NTP (National Toxicology Program)*

None of the ingredients is listed.

· *OSHA-Ca (Occupational Safety & Health Administration)*

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· *General notes:*

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:** Smaller quantities can be disposed of with household waste.

· **Uncleaned packagings:**

· *Recommendation:* Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**

· **DOT, ADR, ADN, IMDG, IATA** Void

· **UN proper shipping name**

· **DOT, ADR, ADN, IMDG, IATA** Void

· **Transport hazard class(es)**

· **DOT, ADR, ADN, IMDG, IATA**
· *Class* Void

· **Packing group**

· **DOT, ADR, IMDG, IATA** Void

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user** Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **UN "Model Regulation":** -

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15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- *Sara*

- *Section 355 (extremely hazardous substances):*

None of the ingredient is listed.

- *Section 313 (Specific toxic chemical listings):*

1308-38-9 dichromium trioxide

- *TSCA (Toxic Substances Control Act):*

1317-65-3 calciumcarbonate

8001-79-4 Castor oil

64742-16-1 Flüssiges Kohlenwasserstoffharz

123-26-2 Luvotix HT

1308-38-9 dichromium trioxide

125643-61-0 A mixture of isomers of: C7-9-alkyl-3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate

69011-20-7 Regler ZL

- *Proposition 65*

- *Chemicals known to cause cancer:*

None of the ingredients is listed.

- *Chemicals known to cause reproductive toxicity for females:*

None of the ingredients is listed.

- *Chemicals known to cause reproductive toxicity for males:*

None of the ingredients is listed.

- *Chemicals known to cause developmental toxicity:*

None of the ingredients is listed.

- *Canadian Ingredient disclosure list*

- *Limit 0,1%*

None of the ingredients is listed.

- *Limit 1%*

None of the ingredients is listed.

- *Carcinogeny categories*

- *EPA (Environmental Protection Agency)*

1308-38-9 dichromium trioxide

D, CBD

- *TLV (Threshold Limit Value established by ACGIH)*

1308-38-9 dichromium trioxide

A4

- *MAK (German Maximum Workplace Concentration)*

None of the ingredients is listed.

- *NIOSH-Ca (National Institute for Occupational Safety and Health)*

None of the ingredients is listed.

- **National regulations:**

- *Technical instructions (air):*

Class	Share in %
III	≤ 2,5

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· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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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.

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Reviewed on 10/24/2014

1 Identification

- 1.1 Product identifier

- Trade name:
Turf-Set 2K Non Slump

TURF-SET™ 2K NON SLUMP

- Product Group
2-component polyurethane adhesive

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

- Product category
PC1 Adhesives, sealants
- Application of the substance / the preparation
Adhesives

Details of the supplier of the safety data sheet

- Distributor:

- Chemical Concepts
- 410 Pike Road
- Huntingdon Valley, PA. 19006
- Phone: 800.220.1966
- chemical-concepts.com

2 Hazard(s) identification

- Classification of the substance or mixture



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Harmful

Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.



Irritant

Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

Carc. Cat. 3

- Information concerning particular hazards for human and environment: Not applicable.

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Trade name: Turf-Set 2K Non Slump Urethane Hardener

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- **Label elements**

- **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

diphenylmethanediisocyanate, isomers and homologues

- **Hazard statements**

H332 Harmful if inhaled.

H315 Causes skin irritation.

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.

- **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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

P284 In case of inadequate ventilation wear respiratory protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 1

Reactivity = 0

- **WHMIS-ratings (scale 0 - 4)**



Health = *3

Fire = 1

Reactivity = 0

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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Trade name: Turf-Set 2K Non Slump Urethane Hardener

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3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues
- **Identification number(s)** not available

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.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed**
Breathing difficulty
Coughing
Asthma attacks
- *Danger* Danger of impaired breathing.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.
Mount respiratory protective device.
Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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Trade name: Turf-Set 2K Non Slump Urethane Hardener

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- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Avoid contact with the eyes.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
 - *Requirements to be met by storerooms and receptacles:* No special requirements.
 - *Information about storage in one common storage facility:* Not required.
 - *Further information about storage conditions:*
Protect from frost.
Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- *Additional information:* The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
 - *General protective and hygienic measures:*
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
 - *Breathing equipment:*
Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
 - *Protection of hands:* Not required.
 - *Material of gloves*
Butyl rubber, BR
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
 - *As protection from splashes gloves made of the following materials are suitable:* Natural rubber, NR

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· *Eye protection:*

Tightly sealed goggles

· *Body protection:* Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· **General Information**

· *Appearance:*

<i>Form:</i>	Fluid
<i>Color:</i>	Dark brown
· <i>Odor:</i>	Weak, characteristic
· <i>Odour threshold:</i>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

<i>Boiling point/Boiling range:</i>	330 °C (626 °F)
<i>Setting temperature / range:</i>	0 °C (32 °F)

· **Flash point:** > 204 °C (> 399 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 400 °C (752 °F)

· *Decomposition temperature:* Not determined.

· **Auto igniting:** Not determined.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

<i>Lower:</i>	Not determined.
<i>Upper:</i>	Not determined.

· **Vapor pressure at 20 °C (68 °F):** 11 hPa (8 mm Hg)

· **Density at 20 °C (68 °F):** 1.22 g/cm³ (10.181 lbs/gal)

· *Relative density* Not determined.

· *Vapour density* Not determined.

· *Evaporation rate* Not determined.

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

<i>Dynamic at 20 °C (68 °F):</i>	220 mPas
<i>Kinematic:</i>	Not determined.

· **Solvent content:**

<i>Organic solvents:</i>	0.0 %
<i>VOC Content:</i>	0.00 %

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· **Other information**

No further relevant information available.

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10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
Reacts with water.
Exothermic reaction with amines and alcohols; reacts with water forming CO₂; in closed containers, risk of bursting owing to increase of pressure.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· *LD/LC50 values that are relevant for classification:*

Oral	LD50	>10000 mg/kg (Ratte)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50	0.493 mg/l (Ratte) (4h)

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral	LD50	> 2000 mg/kg (Ratte)
Dermal	LD50	> 9400 mg/kg (rab) (OECD- Prüfrichtlinie 402)
Inhalative	LC50/48 h	490 mg/l (Ratte) (als Aerosol, Exposition)

- *Primary irritant effect:*
- *on the skin:* Irritant to skin and mucous membranes.
- *on the eye:* Irritating effect.
- *Sensitization:*
Sensitization possible through inhalation.
Sensitization possible through skin contact.
- **Additional toxicological information:**

· *Carcinogenic categories*

· *IARC (International Agency for Research on Cancer)*

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	3
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· *NTP (National Toxicology Program)*

Substance is not listed.

· *OSHA-Ca (Occupational Safety & Health Administration)*

Substance is not listed.

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12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

EC0	> 500 mg/l (Daphnia magna Wasserfloh) (24h)
	1640 mg/l (Scenedesmus subspicatus) (72h)
LC0	> 1000 mg/l (Fisch) (96h)

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

EC50	>1000 mg/l (Daphnia magna Wasserfloh) (OECD-Prüfrichtlinie 202)
LC0	>1000 mg/l (Fisch) (96h)

- **Persistence and degradability** Heavily biodegradable
- **Bioaccumulative potential** Not worth-mentioning accumulating in organisms
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- *General notes:*
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Liquid product must not be disposed of together with household garbage. Do not allow product to reach sewage system. If product has aged or solidified conventional means of disposal are acceptable.
- **Uncleaned packagings:**
- *Recommendation:* Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- DOT, ADR, ADN, IMDG, IATA Void
- **UN proper shipping name**
- DOT, ADR, ADN, IMDG, IATA Void
- **Transport hazard class(es)**
- DOT, ADR, ADN, IMDG, IATA
- *Class* Void
- **Packing group**
- DOT, ADR, IMDG, IATA Void
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

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Reviewed on 10/24/2014

Trade name: Turf-Set 2K Non Slump Urethane Hardener

· **UN "Model Regulation":**

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· *Sara*

· *Section 355 (extremely hazardous substances):*

Substance is not listed.

· *Section 313 (Specific toxic chemical listings):*

Substance is listed.

· *TSCA (Toxic Substances Control Act):*

Substance is listed.

· *Proposition 65*

· *Chemicals known to cause cancer:*

Substance is not listed.

· *Chemicals known to cause reproductive toxicity for females:*

Substance is not listed.

· *Chemicals known to cause reproductive toxicity for males:*

Substance is not listed.

· *Chemicals known to cause developmental toxicity:*

Substance is not listed.

· *Canadian Ingredient disclosure list*

· *Limit 0,1%*

Substance is not listed.

· *Limit 1%*

Substance is not listed.

· *Carcinogeny categories*

· *EPA (Environmental Protection Agency)*

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

CBD

· *TLV (Threshold Limit Value established by ACGIH)*

Substance is not listed.

· *MAK (German Maximum Workplace Concentration)*

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

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· *NIOSH-Ca (National Institute for Occupational Safety and Health)*

Substance is not listed.

· **National regulations:**

· *Technical instructions (air):*

Class	Share in %
I	50-100

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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Safety Data Sheet

acc. to OSHA HCS

Printing date 10/27/2014

Reviewed on 10/24/2014

Trade name: Turf-Set 2K Non Slump Urethane Hardener

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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.

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