SAFETY DATA SHEET
Carboline Urethane Converter 811

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

1.1. Product identifier
Product name: Carboline Urethane Converter 811
Product number: 820UC811-B

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

1.3. Details of the supplier of the safety data sheet
Supplier: Akis Paint and Chemical Inc.
Ali Osman Sönmez Cad. No:4
DOSAB-BURSA/TURKEY
T: +902242610537
F:+902242610542
www.akisboya.com

Contact person: Tolga Diraz - Teknik Müdür, Resmiye Kovancı Savaş - Fabrika Müdürü, H.Tuğba Başkurt
Fildiş - Kalite Güvence Sorumluşu

1.4. Emergency telephone number
Emergency telephone: Company Tel: +90 224 261 05 37 (office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification
Physical hazards: Flam. Liq. 3 - H226
Health hazards: Acute Tox. 4 - H332 Skin Sens. 1 - H317 STOT SE 3 - H335
Environmental hazards: Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) Xn; R20, Xi; R37. R52/53, R10, R43

2.2. Label elements

Pictogram

Signal word: Warning

Hazard statements: H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
Carboline Urethane Converter 811

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapour/spray.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311 Call a POISON CENTER/doctor if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P404+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

Contains

hexamethylene-1,6-diisocyanate homopolymer, Low boiling point naphtha - unspecified,
hexamethylene-di-isocyanate

2.3. Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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<tr>
<th>hexamethylene-1,6-diisocyanate homopolymer</th>
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<th>Classification (67/548/EEC or 1999/45/EC)</th>
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<td>Acute Tox. 4 - H332</td>
<td>Xn; R20. Xi; R37. R43</td>
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<td>STOT SE 3 - H335</td>
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<td>R10, R66, R67</td>
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<tr>
<td>STOT SE 3 - H336</td>
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</table>
## Carboline Urethane Converter 811

<table>
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<tr>
<th>Low boiling point naphtha - unspecified</th>
<th>1-5%</th>
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<td>EC number: 265-199-0</td>
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**Classification**
- Flam. Liq. 3 - H226
- STOT SE 3 - H335, H336
- Asp. Tox. 1 - H304
- Aquatic Chronic 2 - H411

**Classification (67/548/EEC or 1999/45/EC)**
- Xn; R65. Xi; R37. N; R51/53. R10, R67

**hexamethylene-di-isocyanate**
- <1% |
| CAS number: 822-06-0                  | EC number: 212-485-8 |

**Classification**
- Acute Tox. 4 - H302
- Acute Tox. 1 - H330
- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319
- Resp. Sens. 1 - H334
- Skin Sens. 1 - H317
- STOT SE 3 - H335

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**
Remove affected person from source of contamination. Chemical burns must be treated by a physician.

**Inhalation**
If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. First aid personnel should wear appropriate protective equipment during any rescue. If spray/mist has been inhaled, proceed as follows. Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Rinse nose and mouth with water. Consult a physician for specific advice. Keep affected person warm and at rest. Get medical attention if symptoms are severe or persist.

**Ingestion**
Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

**Skin contact**
Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

**Eye contact**
Remove affected person from source of contamination. Remove contact lenses, if present and easy to do. Continue rinsing. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

**Protection of first aiders**
Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. First aid personnel should wear appropriate protective equipment during any rescue.

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

**Inhalation**
The product contains organic solvents. Toxic if inhaled.
**Carboline Urethane Converter 811**

**Ingestion**
This product is corrosive. Liquid irritates mucous membranes and may cause abdominal pain if swallowed. May cause chemical burns in mouth and throat.

**Skin contact**
Causes severe burns.

**Eye contact**
Redness. Conjunctivitis, irritation, tearing. May cause chemical eye burns.

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

**Notes for the doctor**
Treat symptomatically.

**Specific treatments**
No specific chemical antidote is known to be required after exposure to this product.

### SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable extinguishing media**
Use foam, carbon dioxide, dry powder or water fog to extinguish.

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

**Specific hazards**
Not known. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

**Hazardous combustion products**
None known.

**5.3. Advice for firefighters**

**Protective actions during firefighting**
Move containers from fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses. Stop leak if safe to do so. Contain and collect extinguishing water. Ventilate closed spaces before entering them. Cool containers exposed to flames with water until well after the fire is out.

**Special protective equipment for firefighters**
Use air-supplied respirator, gloves and protective goggles.

### SECTION 6: Accidental release measures

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

**Personal precautions**
Ensure procedures and training for emergency decontamination and disposal are in place. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Take care as floors and other surfaces may become slippery. Ensure suitable respiratory protection is worn during removal of spillages in confined areas.

**6.2. Environmental precautions**

**Environmental precautions**
Avoid discharge into drains or watercourses or onto the ground. The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. May accumulate in soil and water systems.

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

**Methods for cleaning up**
Large Spillages: Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material. Flush contaminated area with plenty of water. Small Spillages: Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Leave small quantities to evaporate, if safe to do so. Allow small quantities to evaporate to the atmosphere in a safe, open place.

**6.4. Reference to other sections**
Carboline Urethane Converter 811

Reference to other sections
For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Obtain special instructions before use. Avoid contact with skin, eyes and clothing. Read label before use. Wear protective clothing as described in Section 8 of this safety data sheet. For professional users only.

Advice on general occupational hygiene
Take off contaminated clothing. Promptly remove any clothing that becomes wet or contaminated. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Contaminated clothing should be placed in a closed container for disposal or decontamination. Good personal hygiene procedures should be implemented. Provide eyewash station. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Store in tightly-closed, original container in a dry and cool place. Protect from sunlight. Keep away from food, drink and animal feeding stuffs. Keep containers upright.

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

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures
Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Clean equipment and the work area every day.

Respiratory protection
Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible.

Thermal hazards
If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures.

Environmental exposure controls
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
Carboline Urethane Converter 811

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties
Appearance: Homogeneous
Colour: Clear.
Flash point: >23°C; <60°C
Relative density: 1.08–1.13 gr/cm³ (20°C)

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity: There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability: Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid
Conditions to avoid: Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Hazardous decomposition products: Decomposition at ambient temperatures may generate the following substances: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological effects: This product is toxic. Allergic skin reaction may be observed in hypersensitive personnel. Harmful if swallowed.

Acute toxicity - inhalation
ATE Inhalation (vapours mg/l): 1,222.0

Skin corrosion/irritation
Skin corrosion/irritation: No information available.

Respiratory sensitisation
Respiratory sensitisation: Sensitising.

Skin sensitisation
Skin sensitisation: Sensitising.

Carcinogenicity
Carcinogenicity: No information available.

Reproductive toxicity
Reproductive toxicity - fertility: No information available.

Specific target organ toxicity - single exposure
STOT - single exposure: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure: Data lacking.
Carboline Urethane Converter 811

Inhalation
The product contains organic solvents. May cause drowsiness or dizziness.

Ingestion
May be harmful if swallowed. May cause stomach pain or vomiting.

Skin contact
Liquid may irritate skin.

Eye contact
May irritate eyes.

SECTION 12: Ecological Information

Ecotoxicity
Dangerous for the environment. The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential. May cause long lasting harmful effects to aquatic life. The product may have adverse effects on organisms in soil and water.

12.1. Toxicity
Toxicity
No effects known.

12.2. Persistence and degradability
Persistence and degradability
No data available.

12.3. Bioaccumulative potential
Bioaccumulative potential
Not known.

12.4. Mobility in soil

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 known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
General information
Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Confirm disposal procedures with environmental engineer and local regulations. Product residues retained in emptied containers can be hazardous.

SECTION 14: Transport information

14.1. UN number
UN No. (ADR/RID) 1263
UN No. (IMDG) 1263
UN No. (ICAO) 1263
UN No. (ADN) 1263

14.2. UN proper shipping name
Proper shipping name (ADR/RID) PAINT RELATED MATERIAL
Carboline Urethane Converter 811

Proper shipping name (IMDG) PAINT RELATED MATERIAL
Proper shipping name (ICAO) PAINT RELATED MATERIAL
Proper shipping name (ADN) PAINT RELATED MATERIAL

14.3. Transport hazard class(es)
ADR/RID class 3
ADR/RID classification code F1
ADR/RID label 3
IMDG class 3
ICAO class/division 3
ADN class 3

14.4. Packing group
ADR/RID packing group III
IMDG packing group III
ADN packing group III
ICAO packing group III

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user
EmS F-E, S-E
ADR transport category 3
Emergency Action Code +3Y
Hazard Identification Number (ADR/RID) 30
Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Carboline Urethane Converter 811

EU legislation

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Key literature references and sources for data
This SDS has been created as a result of observations, measurements on the product related to the product and the data that raw material suppliers provide.

Revision comments
This is first issue.

Issued by
Mr. Tolga DIRAZ - Certified SDS Author - Certificate No: 01.40.08/06.03.2015 / tdiraz@iyigullu.com.tr / +90 224 261 05 37

Revision
0

Supersedes date
28/12/2015

SDS number
4923

Risk phrases in full
R10 Flammable.
R20 Harmful by inhalation.
R23 Toxic by inhalation.
R36/37/38 Irritating to eyes, respiratory system and skin.
R37 Irritating to respiratory system.
R42/43 May cause sensitisation by inhalation and skin contact.
R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Hazard statements in full
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
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.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH208 Contains hexamethylene-di-isocyanate. May produce an allergic reaction.
Carboline Urethane Converter 811

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.