



SDS

QUALIPUR 6800 Part B

1	PRODUCT AND COMPANY IDENTIFICATION
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Product Identifier: QUALIPUR 6800 Part B
Revision Date: 6/12/2018

Supplier Details: Advanced Polymer Technology
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Classification of Substance**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Health, Respiratory or skin sensitization, 1 Respiratory
 Health, Respiratory or skin sensitization, 1 Skin
 Health, Serious Eye Damage/Eye Irritation, 2 A

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:

**GHS Hazard Statements:**

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation

GHS Precautionary Statements:

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P285 - In case of inadequate ventilation wear respiratory protection.
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P342+311 - Call a POISON CENTER or doctor/physician.
 P302+352 - IF ON SKIN: Wash with soap and water.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Contains isocyanates. May produce an allergic reaction.

Contains Hexane, 1,6-diisocyanato-, homopolymer, hexamethylene-di-isocyanate. May produce an allergic reaction.

Chemical Ingredients		
CAS#	%	Chemical Name
28182-81-2	>99%	Hexane, 1,6-diisocyanato-, homopolymer
822-06-0	<0.1%	Hexamethylene diisocyanate

Immediately remove any clothing soiled by the product.

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

Take affected persons out into the fresh air.

After inhalation:

Supply fresh air.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Seek immediate medical advice.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Immediately remove contact lenses if possible.

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

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

Most important symptoms and effects, both acute and delayed

Asthma attacks

Breathing difficulty

Allergic reactions

Gastric or intestinal disorders

Dizziness

Hazards

Danger of impaired breathing.

Danger of pulmonary oedema.

Danger of disturbed cardiac rhythm.

Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.

Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary oedema.

Contains isocyanates.

Flash Point: 356 °F / 180 °C (DIN 51758)

Suitable extinguishing agents:

Alcohol resistant foam
Fire-extinguishing powder
Gaseous extinguishing agents
Carbon dioxide
Water haze or fog

For safety reasons unsuitable extinguishing agents:

Water with full jet
Water spray

Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.

Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Cool endangered receptacles with water fog or haze.

Eliminate all ignition sources if safe to do so.

Use large quantities of foam as it is partially destroyed by the product.

No further relevant information available.

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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

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).

Send for recovery or disposal in suitable receptacles.

Additional Spill Procedures/Neutralization: Neutralization solutions:

(1) Colorimetric Laboratories Inc. (CLI) decontamination solution.

(2) A mixture of 75% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10) and 5% npropanol.

(3) A mixture of 80% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10).

(4) A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.

Dispose contaminated material as waste according to item 13.

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.

Handling Precautions:

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Storage Requirements:

Information about fire - and explosion protection: Keep respiratory protective device available.

Requirements to be met by storerooms and receptacles:

Provide ventilation for receptacles.

Store in a cool location.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with oxidizing and acidic materials.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep container tightly sealed.

Engineering Controls:

Educate and train employees in safe use of this product. Follow all label instruction. Local exhaust should be used to maintain levels below the TLV whenever this product is processed, heated or spray applied. For spray applications, an air-supplied respirator must be worn. All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

Personal Protective Equipment:

The usual precautionary measures are to be adhered to when handling chemicals. Personal protective equipment must be selected to prevent inhalation of vapors and contact with skin and eyes. At a bare minimum, safety glasses, gloves, apron, and combination particle/vapor respirator should be worn. In some cases, supplied air, full body suits and boots will be needed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

Respiratory protection:

Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

Protection of hands:**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

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.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Neoprene gloves

Eye protection:

Contact lenses should not be worn.

Safety glasses

Body protection:

Boots

Apron

Full head, face and neck protection

Impervious protective clothing

Limitation and supervision of exposure into the environment

No further relevant information available.

Risk management measures

Organizational measures should be in place for all activities involving this product.

See Section 7 for additional information.

No further relevant information available.

Ingredients with limit values that require monitoring at the workplace:**822-06-0 hexamethylene-di-isocyanate**

REL (USA) Short-term value: C 0,14* mg/m³, C 0,02* ppm / Long-term value: 0,035 mg/m³, 0,005 ppm / *10-min

TLV (USA) 0,034 mg/m³, 0,005 ppm

EL (Canada) Short-term value: C 0,01 ppm / Long-term value: 0,005 ppm / S

EV (Canada) 0,005 ppm

DNELs No further relevant information available.

PNECs No further relevant information available.

Additional information: The lists valid during the making were used as basis.

9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance:	Clear Liquid	Flash Point:	356 °F / 180 °C (DIN 51758)
Physical State:	Liquid		
Specific Gravity or Density:	1,14 g/cm ³		
Vapor Pressure:	10 hPa		

10	STABILITY AND REACTIVITY
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Chemical Stability: No decomposition if used and stored according to specifications.

Conditions to Avoid Identification: Store away from oxidizing agents.
Keep away from heat and direct sunlight.

Materials to Avoid Identification: Reacts with alcohols, amines, aqueous acids and alkalis.
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong oxidizing agents.

Hazardous Decomposition: Hydrogen cyanide (prussic acid)
Nitrogen oxides
Isocyanate
Carbon monoxide and carbon dioxide

Hazardous Polymerization: Reacts with water.

11	TOXICOLOGICAL INFORMATION
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LD/LC50 values relevant for classification:
28182-81-2 Hexane, 1,6-diisocyanato-, homopolymer
Oral LD50 >5000 mg/kg (rat) / Estimated Value
Dermal LD50 >5000 mg/kg (rabbit)

822-06-0 hexamethylene-di-isocyanate
Oral LD50 738 mg/kg (rat)
Dermal LD50 593 mg/kg (rat)

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: Danger through skin adsorption.

Sensitisation:
Sensitization possible by skin contact.
Sensitization possible by inhalation and/or dermal contact.

Repeated dose toxicity:
May cause damage to organs through prolonged or repeated exposure .
Repeated exposures may result in skin and/or respiratory sensitivity.

12	ECOLOGICAL INFORMATION
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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.

Ecotoxicological effects:

Remark:

Due to mechanical actions of the product (e.g. agglutinations) damages may occur.
The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

Additional ecological information:

General notes:

This statement was deduced from the properties of the single components.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
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.
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
Generally not hazardous for water

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13	DISPOSAL CONSIDERATIONS
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Must not be disposed together with household garbage. Do not allow product to reach sewage system.
After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14	TRANSPORT INFORMATION
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UN-Number DOT, ADR, ADN, IMDG, IATA	N/A
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	N/A
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	N/A
Packing group DOT, ADR, IMDG, IATA	N/A
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"	---

15	REGULATORY INFORMATION
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Component (CAS#) [%] - CODES

Hexane, 1,6-diisocyanato-, homopolymer (28182-81-2) [>99%] TSCA

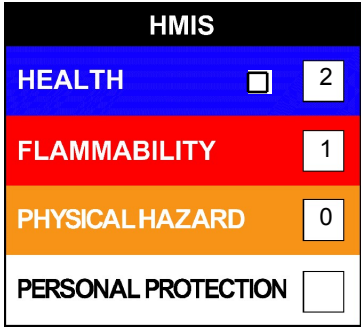
RQ(100LBS), Hexamethylene diisocyanate (822-06-0) [<0.1%] CERCLA, HAP, MASS, SARA313, TSCA, TXAIR

Regulatory CODE Descriptions

RQ = Reportable Quantity
TSCA = Toxic Substances Control Act
CERCLA = Superfund Cleanup Substances
HAP = Hazardous Air Pollutants
MASS = MA Massachusetts Hazardous Substances List
SARA313 = SARA 313 Title III Toxic Chemicals
TXAIR = TX Air Contaminants with Health Effects Screening Level

16	OTHER INFORMATION
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NFPA: Health = 2, Fire = 1, Reactivity = 0, Specific Hazard = n/a
HMIS III: Health = 2, Fire = 1, Physical Hazard = 0



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.

Revision Date: 6/12/2018