



SAFETY DATA SHEET

Revision Date: 10/24/2012
Print Date: 4/1/2013
MSDS Number: 000000146316
Version: 2.0

PEP SET™ Q II 6180 BINDER
™ Trademark, ASK Chemicals, registered in
various countries705881

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

ASK Chemicals L.P. P.O. Box 395 Columbus, OH 43216	Regulatory Information Number Telephone Emergency telephone number	1-800-325-3751 1-855-ASK4YOU (1-855-275-4968)
Product name	PEP SET™ Q II 6180 BINDER ™ Trademark, ASK Chemicals, registered in various countries	
Product code	705881	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, brown

WARNING! COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY BE HARMFUL IF INHALED. MAY CAUSE ALLERGIC RESPIRATORY REACTION. MAY CAUSE EYE IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin contact



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Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. May cause allergic skin reaction. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing this material may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.). May cause allergic respiratory reaction. This product is a two-part urethane system. While breathing 4,4'-diphenylmethane diisocyanate (MDI) can be harmful or fatal, breathing MDI is not expected during normal use of this system.

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, Upper respiratory tract, lung (for example, asthma-like conditions), Kidney, immune system, eye, Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias., Individuals with erythrocyte glucose-6-phosphate dehydrogenase deficiency are particularly susceptible to hemolytic agents and rapidly develop hemolytic anemia from ingestion or inhalation of this material (or a component).

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: sweating, Fever, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Cough, Lung irritation, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), Abdominal pain, chest pain, confusion, Difficulty in breathing, blood abnormalities (breakage of red blood cells), lung edema (fluid buildup in the lung tissue), kidney damage, lung damage, respiratory failure, Exposure to this product (or a component) may cause an allergic reaction (narrowing of the air passages of the lungs resulting in difficult breathing, tightness in the chest, coughing and wheezing) in some sensitive individuals. Other symptoms of an allergic reaction may include itchy and watery eyes, runny and stuffy nose, sweating, flushing, hives, rapid heart rate, and lowered blood pressure.



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Target Organs

This material (or a component) has been shown to lower activity of certain immune system cells in experimental animals. The significance of this effect with respect to human health is uncertain., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:., mild, reversible liver effects, cataracts, anemia, eye damage, central nervous system damage, nasal damage, lung damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:., effects on lung function, cataracts, eye damage

Carcinogenicity

In a two-year inhalation study in rats, exposure to polymeric methylene bisphenylisocyanate (MDI) aerosol caused a significant increase in benign (noncarcinogenic) lung tumors, along with a single carcinogenic lung tumor, at the highest dose only (6 mg/m3). The tumors occurred along with irritation of the respiratory tract and the accumulation of a yellow material in the lungs. There was irritation only at 1.0 mg/m3 and no effect at 0.2 mg/m3. MDI is not listed as carcinogenic by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). In a National Toxicology Program (NTP) study, lifetime inhalation exposure to naphthalene resulted in increases in tumors of the nose in rats. In a previous NTP study, lifetime exposure to naphthalene caused lung tumors in female mice. Male mice with the same exposure did not develop tumors. The relevance of this finding to humans is uncertain. Naphthalene is listed as carcinogenic by IARC (International Agency for Research on Cancer) and the National Toxicology Program (NTP).

Reproductive hazard

This material (or a component) causes harm to the fetus.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / Trade Secret No.	Concentration
POLYMETHYLENE POLYPHENYL ISOCYANATE	9016-87-9	>=60-<70%
AROMATIC HYDROCARBONS	254504001-5543	>=30-<40%
METHYLENE DIPHENYLISOCYANATE	26447-40-5	>=20-<30%
4,4'-DIPHENYLMETHANE DIISOCYANATE	101-68-8	>=20-<30%
1-ISOCYANATO-2-((4-ISOCYANATO-PHENYL)METHYL)-BENZ	5873-54-1	>=1.5-<5%
MDI MIXED ISOMERS		>=1-<1.5%



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4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Notes to physician

Hazards: Pulmonary edema may be delayed. Inhalation or ingestion of high levels of this material (or a component) may cause a hemolytic reaction. Complications of acute intravascular hemolysis include anemia, leukocytosis, fever, hemoglobinuria, jaundice, renal insufficiency, and sometimes disturbances in liver function. Fats, for example, baby oil on the skin or ingested oil, facilitate absorption of naphthalene.

Treatment: No information available.

5. FIREFIGHTING MEASURES



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Suitable extinguishing media

Dry chemical, Carbon dioxide (CO₂), Water spray

Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrocarbons, Hydrogen cyanide (hydrocyanic acid), Isocyanates, nitrogen oxides (NO_x), Sulphur oxides

Precautions for fire-fighting

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIA

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).



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Other information

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

Storage

Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

POLYMETHYLENE POLYPHENYL ISOCYANATE		9016-87-9
ACGIH	time weighted average	0.005 ppm
NIOSH	Recommended exposure limit (REL):	0.005 ppm
NIOSH	Recommended exposure limit (REL):	0.05 mg/m3
NIOSH	Ceiling Limit Value and Time Period (if specified):	0.020 ppm
NIOSH	Ceiling Limit Value and Time Period (if specified):	0.2 mg/m3
OSHA Z1	Ceiling Limit Value:	0.02 ppm
OSHA Z1	Ceiling Limit Value:	0.2 mg/m3
4,4'-DIPHENYLMETHANE DIISOCYANATE		101-68-8
ACGIH	time weighted average	0.005 ppm
NIOSH	Recommended exposure	0.005 ppm



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	limit (REL):	
NIOSH	Recommended exposure	0.05 mg/m3
	limit (REL):	
NIOSH	Ceiling Limit Value and Time Period (if specified):	0.020 ppm
NIOSH	Ceiling Limit Value and Time Period (if specified):	0.2 mg/m3
OSHA Z1	Ceiling Limit Value:	0.02 ppm
OSHA Z1	Ceiling Limit Value:	0.2 mg/m3

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use. Wear resistant gloves (consult your safety equipment supplier). Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-



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purifying respirator may not provide adequate protection. Diisocyanates have poor warning properties. An air-purifying respirator with an organic vapor cartridge and an N95 prefilter can be used safely and effectively to reduce exposure, provided that appropriate cartridge change schedules are developed to ensure that cartridges are changed before breakthrough occurs. The employer is required to select the appropriate respirator for each situation and must consider potential exposure to chemicals in addition to diisocyanates.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Colour	brown
Flash point	167 °F / 75 °C Seta closed cup
	9.11 lb/gal

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

temperatures above 350 degrees F (177 degrees C), Freezing temperatures., Heat, flames and sparks., Exposure to moisture.

Incompatible products

Acids, Alcohols, alkenes, aluminum, Amines, Ammonia, Bases, Copper alloys, Iron, strong alkalis, Strong oxidizing agents, water, Zinc

Hazardous decomposition products

carbon dioxide and carbon monoxide, Hydrocarbons, Hydrogen cyanide (hydrocyanic acid), Isocyanates, nitrogen oxides (NOx)

Hazardous reactions

Product will not undergo hazardous polymerization.



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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Acute oral toxicity - Product : no data available

Acute oral toxicity - Components

POLYMETHYLENE : LD 50: > 10,000 mg/kg Species: Rat

POLYPHENYL
ISOCYANATE

AROMATIC : LD 50: 3,000 mg/kg Species: Rat
HYDROCARBONS

METHYLENE : LD 50: > 15,800 mg/kg Species: Rat
DIPHENYLISOCYANATE

4,4'- : LD 50: 9,200 mg/kg Species: Rat
DIPHENYLMETHANE
DIISOCYANATE

Acute inhalation toxicity

Acute inhalation toxicity - Product : no data available

Acute inhalation toxicity - Components

POLYMETHYLENE : LC 50: 369 - 490 mg/m3 Exposure time: 4 h Species: Rat
POLYPHENYL
ISOCYANATE

AROMATIC : LC 50: > 3,800 mg/m3 Exposure time: 4 h Species: Rat
HYDROCARBONS

METHYLENE : LC 50: 490 mg/m3 Exposure time: 4 h Species: Rat
DIPHENYLISOCYANATE

4,4'- : LC 50: 0.369 mg/l Exposure time: 4 h Species: Rat



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DIPHENYLMETHANE
DIISOCYANATE

Acute dermal toxicity

Acute dermal toxicity - Product : no data available

Acute dermal toxicity - Components

POLYMETHYLENE POLYPHENYL ISOCYANATE	: LD 50: > 10,000 mg/kg Species: Rabbit
AROMATIC HYDROCARBONS	: LD 50: > 3,000 mg/kg Species: Rabbit
METHYLENE DIPHENYLISOCYANATE	: LD 50: > 5,010 mg/kg Species: Rabbit
4,4'- DIPHENYLMETHANE DIISOCYANATE	: LD 50: > 7,900 mg/kg Species: Rabbit

Acute toxicity (other routes of administration)

Acute toxicity (other routes of administration) : no data available

12. ECOLOGICAL INFORMATION

Biodegradability

Biodegradability - Product : no data available

Bioaccumulation

Bioaccumulation - Product : no data available

Ecotoxicity effects
Toxicity to fish



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Toxicity to fish - Product	: no data available
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Toxicity to daphnia and other aquatic invertebrates

Toxicity to daphnia and other aquatic invertebrates - Product	: no data available
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Toxicity to algae

Toxicity to algae - Product	: no data available
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Toxicity to bacteria

Toxicity to bacteria - Product	: no data available
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13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

NA 1993	Combustible liquid, n.o.s. (AROMATIC PETROLEUM DISTILLATES)	CBL		III	
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U.S. DOT - RAIL

NA	1993	Combustible liquid, n.o.s. (AROMATIC PETROLEUM DISTILLATES)	CBL	III
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U.S. DOT - INLAND WATERWAYS

NA	1993	Combustible liquid, n.o.s. (AROMATIC PETROLEUM DISTILLATES)	CBL	III
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TRANSPORT CANADA - ROAD

UN	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AROMATIC PETROLEUM DISTILLATES)	9	III
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TRANSPORT CANADA - RAIL

UN	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AROMATIC PETROLEUM DISTILLATES)	9	III
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TRANSPORT CANADA - INLAND WATERWAYS

UN	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AROMATIC PETROLEUM DISTILLATES)	9	III
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AROMATIC PETROLEUM DISTILLATES)	9	III
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	3082	Environmentally hazardous substance, liquid, n.o.s. (AROMATIC PETROLEUM DISTILLATES)	9	III
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	3082	Environmentally hazardous substance, liquid, n.o.s. (AROMATIC PETROLEUM DISTILLATES)	9	III
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	3082	SUSTANCIA LIQUIDA POTENCIALMENTE PELIGROSAS PARA EL MEDIO AMBIENTE, N.E.P. (AROMATIC PETROLEUM DISTILLATES)	9	III
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*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SARA Hazard Classification

SARA 311/312 Classification

Fire Hazard

Acute Health Hazard

SARA 313 Component(s)

POLYMETHYLENE POLYPHENYL ISOCYANATE

65.00 %



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4,4'-DIPHENYLMETHANE DIISOCYANATE	22.75 %
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Notification status

US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	n (Negative listing)
Japan. Kashin-Hou Law List	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302)	7692 lbs
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Reportable quantity-Components

POLYMETHYLENE POLYPHENYL ISOCYANATE	9016-87-9	5000 lbs
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	HMIS	NFPA
Health	2*	3
Flammability	2	2
Physical hazards	1	
Instability		1
Specific Hazard	--	--

16. OTHER INFORMATION



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The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).