SAFETY DATA SHEET

1. Identification

Product identifier PhillyBond # 6 Hardener

Other means of identification

SKU# DM012H
Recommended use Not available.
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor informationCompany nameITW Performance PolymersAddress35 Brownridge Road

Unit 1

Halton Hills, ON L7G 0C6

Contact personCustomer ServiceTelephone number215-855-8450Fax number215-855-4688

Emergency Number 800-424-9300 (CHEMTREC)

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Acute toxicity, dermal

Skin corrosion/irritation

Serious eye damage/eye irritation

Category 2

Sensitization, skin

Category 1

Hazardous to the aquatic environment, acute

Category 3

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

Label elements



Signal word Warning

Hazard statement Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. May cause an allergic

skin reaction. Causes serious eye irritation. Harmful to aquatic life. Harmful to aquatic life with

long lasting effects.

Precautionary statement

Prevention Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat,

drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection. Wear

protective gloves/protective clothing.

Response IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. Rinse mouth. IF ON SKIN:

Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off

contaminated clothing and wash it before reuse.

Storage Not available.

Material name: PhillyBond # 6 Hardener

Disposal

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

Supplemental information

26.97 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 91.29 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 83.27 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic

environment.

Other hazards

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Talc		14807-96-6	30 - 60
Formaldehyde, Oligomeric Reaction Products With Phenol And Triethylenetetramine	Formaldehyde, oligomeric reaction products with phenol and triethylenetetramine	Proprietary	10 - 30
Phenol		108-95-2	5 - 10
TRIETHYLENETETRAMINE	TETA	112-24-3	5 - 10
Silica, amorphous, fumed	Silica, amorphous, fumed, crystfree	112945-52-5	1 - 5
Carbon Black		1333-86-4	0.1 - 1
SILICA, CRYSTALLINE, QUARTZ		14808-60-7	< 1
Other components below reportable		1 - 5	

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing immediately and wash skin with soap and water. Get medical Skin contact

advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated

> Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Ingestion

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Fire fighting equipment/instructions

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

Material name: PhillyBond # 6 Hardener

SDS CANADA

DM012H Version #: 07 Revision date: 27-July-2023 Issue date: 06-April-2019

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Prevent product from entering drains.

Type

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not taste or swallow. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Value

Form

8. Exposure controls/personal protection

Occupational exposure limits

Components

US. ACGIH	Threshold Limit	Values	(TLV)
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	71		
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Phenol (CAS 108-95-2)	TWA	5 ppm	
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
Canada. Alberta OELs (Occupation	nal Health & Safety Code, Sc	hedule 1, Table 2), as amended	
Components	Туре	Value	Form
Carbon Black (CAS	TWA	3.5 mg/m3	

Carbon Black (CAS 1333-86-4)	TWA	3.5 mg/m3	
Phenol (CAS 108-95-2)	TWA	19 mg/m3	
		5 ppm	
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable particles.

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable
Phenol (CAS 108-95-2)	TWA	5 ppm	
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.

Material name: PhillyBond # 6 Hardener

Components		Туре	v a	lue	Form
Carbon Black (CAS 1333-86-4)		TWA	3 mg/m3		Inhalable fraction.
Phenol (CAS 108-95-2)		TWA	5 p	ppm	
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)		TWA	0.0)25 mg/m3	Respirable fraction.
Talc (CAS 14807-96-6)		TWA	2 r	ng/m3	Respirable fraction.
Canada. New Brunswick Ol			ased on the 199 [,]	1 and 1997 A	CGIH TLVs and BEIs
Publication (New Brunswic	k Regulation 91	•	**	lua	Form
Components		Туре		lue	Form
Carbon Black (CAS 1333-86-4)		TWA		5 mg/m3	
Phenol (CAS 108-95-2)		TWA		mg/m3	
			•	ppm	
Talc (CAS 14807-96-6)		TWA	2 r	ng/m3	Respirable.
Canada. Ontario OELs. (Co Components	ntrol of Exposu	re to Biological or Che Type	•	as amended lue	Form
Carbon Black (CAS 1333-86-4)		TWA	3 r	mg/m3	Inhalable fraction.
Phenol (CAS 108-95-2)		TWA	5 բ	ppm	
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)		TWA	0.1	l mg/m3	Respirable fraction.
Talc (CAS 14807-96-6)		TWA	2 f	ibers/cc	
			2 r	ng/m3	Respirable fraction.
TRIETHYLENETETRAMIN		TWA	3 r	ng/m3	
E (CAS 112-24-3)			0.5	5 ppm	
Canada. Quebec OELs. (Mi Components	nistry of Labor	- Regulation respecting	-	nealth and sa llue	fety), as amended Form
Carbon Black (CAS		TWA	3 r	ng/m3	Inhalable dust.
1333-86-4) Phenol (CAS 108-95-2)		TWA	19	mg/m3	
(5.10 100 00 2)				opm	
SILICA, CRYSTALLINE,		TWA	-	I mg/m3	Respirable dust.
QUARTZ (CAS 14808-60-7)				· ·	•
/		TWA	2 r	ng/m3	Respirable dust.
Talc (CAS 14807-96-6)					
Canada. Saskatchewan OE	Ls (Occupation		egulations, 1996	5, Table 21), a llue	s amended Form
Talc (CAS 14807-96-6) Canada. Saskatchewan OE Components Carbon Black (CAS 1333-86-4)	Ls (Occupation	al Health and Safety R	egulations, 1996 Va		
Canada. Saskatchewan OE Components Carbon Black (CAS	Ls (Occupation	al Health and Safety R Type	egulations, 1996 Va 7 r	lue	
Canada. Saskatchewan OE Components Carbon Black (CAS 1333-86-4)	Ls (Occupation	al Health and Safety Ro Type 15 minute	egulations, 1996 Va 7 r 7.5	ng/m3	
Canada. Saskatchewan OE Components Carbon Black (CAS 1333-86-4)	Ls (Occupation	al Health and Safety R Type 15 minute 15 minute	egulations, 1996 Va 7 r 7.5 5 p	ng/m3	
Canada. Saskatchewan OE Components Carbon Black (CAS 1333-86-4) Phenol (CAS 108-95-2)	Ls (Occupation	al Health and Safety Ro Type 15 minute 15 minute 8 hour	egulations, 1996 Va 7 r 7.5 5 p 6 r	ng/m3 5 ppm	Form
Canada. Saskatchewan OE Components Carbon Black (CAS 1333-86-4) Phenol (CAS 108-95-2) Talc (CAS 14807-96-6)	Ls (Occupation	al Health and Safety Ro Type 15 minute 15 minute 8 hour	egulations, 1996 Va 7 r 7.5 5 p 6 r	ng/m3 ppm ppm ng/m3	Form Respirable fraction.
Canada. Saskatchewan OE Components Carbon Black (CAS 1333-86-4) Phenol (CAS 108-95-2) Talc (CAS 14807-96-6) ogical limit values ACGIH Biological Exposure		al Health and Safety Ro Type 15 minute 15 minute 8 hour	egulations, 1996 Va 7 r 7.5 5 p 6 r	ng/m3 ppm ppm ng/m3	Respirable fraction. Inhalable fraction.

Canada - Alberta OELs: Skin designation

Phenol (CAS 108-95-2) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Phenol (CAS 108-95-2) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Phenol (CAS 108-95-2) Danger of cutaneous absorption

Canada - Ontario OELs: Skin designation

Phenol (CAS 108-95-2) Can be absorbed through the skin. TRIETHYLENETETRAMINE (CAS 112-24-3) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Phenol (CAS 108-95-2) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Can be absorbed through the skin.

Phenol (CAS 108-95-2) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Phenol (CAS 108-95-2) Danger of cutaneous absorption

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Paste. **Appearance**

Physical state Not available. **Form** Paste. Colour Black. Ammoniacal. Odour

Odour threshold Not available. Not available. pН Not available. Melting point/freezing point

Initial boiling point and boiling

>176.67 °C (>350 °F)

range

136.1 °C (277.0 °F) Flash point

Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Not available. Explosive limit - lower (%) Explosive limit - upper

(%)

Not available.

Vapour pressure <1 mm Hq Not available. Vapour density Relative density Not available.

Material name: PhillyBond # 6 Hardener

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Density 14.33 lb/gal **Explosive properties** Not explosive.

Flammability class Combustible IIIB estimated

Oxidising properties Not oxidising.

Specific gravity 1.72 VOC 0 g/l

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoidContact with incompatible materials.

Incompatible materials Acids. Strong oxidising agents. Aluminium. Peroxides. Phenols.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected.

Skin contact Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Harmful in contact with skin. Harmful if swallowed.

Components Species Test Results

Carbon Black (CAS 1333-86-4)

Acute Oral

LD50 Rat > 8000 mg/kg

Silica, amorphous, fumed (CAS 112945-52-5)

Acute Oral

LD50 Rat > 22500 mg/kg

TRIETHYLENETETRAMINE (CAS 112-24-3)

Acute
Dermal
Liquid

LD50 Rat 1465 mg/kg

Material name: PhillyBond # 6 Hardener

Species Test Results Components

Oral Liquid

LD50 Rat 1716 mg/kg

Causes skin irritation. Skin corrosion/irritation

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitisation

Canada - Alberta OELs: Irritant

Carbon Black (CAS 1333-86-4) Irritant Irritant Silica, amorphous, fumed (CAS 112945-52-5) Talc (CAS 14807-96-6) Irritant

Respiratory sensitisation Not a respiratory sensitiser.

May cause an allergic skin reaction. Skin sensitisation

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

ACGIH Carcinogens

Carbon Black (CAS 1333-86-4) A3 Confirmed animal carcinogen with unknown relevance to

humans.

A4 Not classifiable as a human carcinogen. Phenol (CAS 108-95-2)

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) A2 Suspected human carcinogen. Talc (CAS 14807-96-6) A1 Confirmed human carcinogen.

A4 Not classifiable as a human carcinogen.

Canada - Alberta OELs: Carcinogen category

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Carbon Black (CAS 1333-86-4) Confirmed animal carcinogen with unknown relevance to humans.

Phenol (CAS 108-95-2) Not classifiable as a human carcinogen.

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected human carcinogen. Talc (CAS 14807-96-6) Confirmed human carcinogen.

Not classifiable as a human carcinogen.

Canada - Quebec OELs: Carcinogen category

Carbon Black (CAS 1333-86-4) Detected carcinogenic effect in animals. SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected carcinogenic effect in humans.

Detected carcinogenic effect in humans. Talc (CAS 14807-96-6)

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon Black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans. Phenol (CAS 108-95-2) Silica, amorphous, fumed (CAS 112945-52-5) 3 Not classifiable as to carcinogenicity to humans.

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) 1 Carcinogenic to humans.

Talc (CAS 14807-96-6) 2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

Carbon Black (CAS 1333-86-4) Known To Be Human Carcinogen. SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard**

12. Ecological information

Harmful to aquatic life with long lasting effects. **Ecotoxicity**

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Phenol 1.46

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Not applicable. Not established.

15. Regulatory information

Canadian regulationsThis product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed

Greenhouse Gases

Not listed.

Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

Phenol (CAS 108-95-2)

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

Material name: PhillyBond # 6 Hardener

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

Philippine Inventory of Chemicals and Chemical Substances

16. Other information

Philippines

Issue date06-April-2019Revision date27-July-2023

Version No. 07

Disclaimer ITW Performance Polymers cannot anticipate all conditions under which this information and its

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. 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 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. The information given is designed only as a guidance

for safe handling, use, processing, storage, transportation, disposal and release.

Revision information Physical & Chemical Properties: Multiple Properties

Material name: PhillyBond # 6 Hardener SDS CANADA

Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).