# SAFETY DATA SHEET

## 1. Identification

Product identifier	Phillyclad 620TS Hardene	r
Other means of identification		
SKU#	DM017H	
Recommended use	Not available.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplie	r/Distributor information	
Manufacturer		
Company name	ITW Performance Polymers	;
Address	130 Commerce Drive	
	Montgomeryville, PA 18936	
	United States	
Telephone	Customer Service	215-855-8450
Website	www.itwperformancepolyme	ers.com
E-mail	Not available.	
Contact person	EHS Department	
Emergency phone number	CHEMTREC	800-424-9300
	International	703-527-3887
2. Hazard(s) identificatio	n	

#### Not classified. **Physical hazards Health hazards** Acute toxicity, oral Category 4 Acute toxicity, dermal Category 4 Skin corrosion/irritation Category 1A Serious eye damage/eye irritation Category 1 Sensitization, skin Category 1 **Environmental hazards** Hazardous to the aquatic environment, acute Category 3 hazard Hazardous to the aquatic environment, Category 3 long-term hazard **OSHA** defined hazards Not classified. Label elements



Signal word	Danger
Hazard statement	Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	Rinse mouth. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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. Take off contaminated clothing and wash it before reuse.

### Storage Disposal Hazard(s) not otherwise classified (HNOC) Supplemental information

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations. None known.

89.32% of the mixture consists of component(s) of unknown acute oral toxicity. 92.23% of the mixture consists of component(s) of unknown acute inhalation toxicity. 92.23% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 95.14% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

Mixtures	
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Chemical name	Common name and synonyms	CAS number	%
Amidoamine	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Trade Secret	60 - 100
3,6,9-triazaundecamethylenediamin e	3,6,9-triazaundecamethyleendiamine	112-57-2	10 - 30
Diethylenetriamine		111-40-0	2.5 - 10
2,4,6-tris-(dimethylaminomethyl)-ph enol		90-72-2	1 - 5
Other components below reportable	levels		0.1 - 1

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Chemical burns must be treated by a physician. Get medical 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.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. 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 clothing before reuse.

5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Fo

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

6. Accidental release mea	
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 breathe mist/vapors. 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.
	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.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	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 breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. 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 locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре		Value	
Diethylenetriamine (CAS 111-40-0)	TWA		1 ppm	
US. NIOSH: Pocket Guide to Chen	nical Hazards Recon	nmended Exposure	Limits (REL)	
Components	Туре		Value	
Diethylenetriamine (CAS 111-40-0)	TWA		4 mg/m3	
			1 ppm	
US. OARS. Workplace Environme	ntal Exposure Level	(WEEL) Guide		
Components	Туре		Value	Form
3,6,9-triazaundecamethylen ediamine (CAS 112-57-2)	TWA		5 mg/m3	Aerosol.
			1 ppm	Aerosol.
logical limit values No b	iological exposure lim	nits noted for the ingr	redient(s).	
osure guidelines				
US - California OELs: Skin design	ation			
Diethylenetriamine (CAS 111-40	)-0)	Can be absorb	bed through the skin.	
US - Minnesota Haz Subs: Skin de	signation applies			
Diethylenetriamine (CAS 111-40	,	Skin designation	on applies.	
	: Skin designation			
US ACGIH Threshold Limit Values	U			
Diethylenetriamine (CAS 111-40	)-0)	0	aneous absorption	
	)-0)	0	aneous absorption	

#### US WEEL Guides: Skin designation

3,6,9-triazaundecamethylenediamine (CAS 112-57-2) Can be absorbed through the skin.

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. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield. 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.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
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

Physical stateLiquid.FormLiquid.ColorAmberOdorAmine-like.OdorNot available.OdorNot available.PHNot available.PHNot available.Itital boiling point and boiling rangeNot available.Flash point>200.0 °F (>93.3 °C)Evaporation rateNot available.Flash point>200.0 °F (>93.3 °C)Evaporation rateNot available.Evaporation rateNot available.Explosive limit - lower (%)Not available.Explosive limit - lower (%)Not available.Vapor densityNot available.Solubility(ies)Not available.Solubility(ies)Not available.Solubility(water)Not available.Partition coefficient (noctanci/water)Not available.Partition coefficient (noctanci/water)Not available.ViscosityNot available.ViscosityNot available.ViscosityNot available.ViscosityNot available.ViscosityNot available.ViscosityNot available.ViscosityNot available.	5. Filysical and chemical	properties
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Flammability classCombustible IIIB estimatedOxidizing propertiesNot oxidizing.	Density	0.95 g/cm3
Oxidizing properties Not oxidizing.	Explosive properties	Not explosive.
	Flammability class	Combustible IIIB estimated
Specific gravity 0.95	Oxidizing properties	Not oxidizing.
	Specific gravity	0.95

#### VOC

0 Mixed components

Reactivity	The 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	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns. Harmful in contact with skin. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns. Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

#### Information on toxicological effects

Acute toxicity	Harmful in contact with skin. Harmful if swallowed.		
Components	Species	Test Results	
2,4,6-tris-(dimethylaminomethyl)-	phenol (CAS 90-72-2)		
<u>Acute</u>			
Dermal			
LD50	Rat	1280 mg/kg	
Oral			
LD50	Rat	1200 mg/kg	
3,6,9-triazaundecamethylenedian	nine (CAS 112-57-2)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	0.66 g/kg	
Diethylenetriamine (CAS 111-40-	0)		
Acute			
Dermal	B 44 %	4000 "	
LD50	Rabbit	1090 mg/kg	
Oral		1000 "	
LD50	Rat	1080 mg/kg	
Skin corrosion/irritation	Causes severe skin burns and eye damage.		
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitizatio	n		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin reaction.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiable as to carcinogenicity to humans.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Not listed.			
OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1053)		
Not listed.			
Material name: Phillyclad 620TS Har	dener	SDS (	

US. National Toxicology Pro Not listed.	ogram (NTP) Report on Carcinogens
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.
12. Ecological information	1
Ecotoxicity	Harmful to aquatic life with long lasting effects.
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
Bioaccumulative potential	
Partition coefficient n-octan 3,6,9-triazaundecamethylened	
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 consideratio	ns
Disposal instructions	Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. 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	D002: Waste Corrosive material [pH $\leq$ 2 or $=>12.5$ , or corrosive to steel] 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.
4.4. There are sufficient supervision	

## 14. Transport information

DOT	
UN number	UN1760
UN proper shipping name	Corrosive liquids, n.o.s. (Amidoamine)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	III
Environmental hazards	
Marine pollutant	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, T7, TP1, TP28
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN1760
UN proper shipping name	Corrosive liquid, n.o.s. (Amidoamine)
Transport hazard class(es)	
Class	8
Subsidiary risk	-

Packing group	III
Environmental hazards	No.
ERG Code	8L Baad asfety instructions, CDC and encourse yoursed upon before handling
Other information	Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Amidoamine)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.
DOT	



IATA; IMDG



15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

## SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

#### S

Superfund Amendments and Re	eauthorization Act of 1986 (SARA)
SARA 302 Extremely hazard	dous substance
Not listed.	
SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation Respiratory or skin sensitization
SARA 313 (TRI reporting) Not regulated.	
Other federal regulations	
Clean Air Act (CAA) Sectior	n 112 Hazardous Air Pollutants (HAPs) List
Not regulated.	
Clean Air Act (CAA) Sectior	n 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.
US state regulations	
California Proposition 65	
California Safe Drinking \	Nater and Toxic Enforcement Act of 1986 (Proposition 65): Thi

nis material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

Country(s) or region	Inventory name On ir	ventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
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
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Ves" indicates that all compo	nents of this product comply with the inventory requirements administered by the governing	country(e)

\*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).

## 16. Other information, including date of preparation or last revision

Issue date	07-24-2019
Revision date	07-27-2023
Version #	05
HMIS® ratings	Health: 3 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 3 Flammability: 1 Instability: 0

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. Physical & Chemical Properties: Multiple Properties

**Revision information**