SAFETY DATA SHEET

1. Identification		
Product identifier	Chockfast Gray Hardener	
Other means of identification	-	
SKU#	GP103H	
Recommended use	Not available.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	r/Distributor information	
Company name	ITW Performance Polymers	
Address	35 Brownridge Road	
	Unit 1	
	Halton Hills, ON L7G 0C6	
Contact person	Customer Service	
Telephone number	215-855-8450	
Fax number	215-855-4688	
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	Category 4
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
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/vapours. 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 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. 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.	
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Store locked up.

Storage

Other hazards

emergency procedures

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
TRIETHYLENETETRAMINE	TETA	112-24-3	60 - 100
4,4'-Isopropylidenediphenol		80-05-7	10 - 30
Diethylenetriamine		111-40-0	10 - 30

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.
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 immediately.
Ingestion	Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
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	Alcohol resistant foam. 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 mea	sures
Personal precautions, protective equipment and	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/vapours. Do not breathe mist/vapours. Do

appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours. 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.

lethods and materials for	Should not be released into the environment. Prevent product from entering drains.		
ontainment and cleaning up	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 absorben remove residual contamination.	t material (e.g. cloth, fleece). Clean surface thoroughly to	
invironmental precautions	Avoid release to the environment. Ir	ners for re-use. For waste disposal, see section 13 of the SDS. form appropriate managerial or supervisory personnel of all ther leakage or spillage if safe to do so. Do not contaminate water courses or onto the ground.	
7. Handling and storage			
Precautions for safe handling	Do not breathe mist/vapours. 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, ncluding any incompatibilities	Store locked up. Store in tightly clos Section 10 of the SDS).	ed container. Store away from incompatible materials (see	
8. Exposure controls/pers	onal protection		
Occupational exposure limits			
US. ACGIH Threshold Limit Components	Values (TLV) Type	Value	
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	
,	upational Health & Safety Code, Scl	nedule 1. Table 2), as amended	
Components	Туре	Value	
Diethylenetriamine (CAS 111-40-0)	TWA	4.2 mg/m3	
		1 ppm	
		s for Chemical Substances, Occupational Health and	
Safety Regulation 296/97, as Components	Type	Value	
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	
	g. 217/2006, The Workplace Safety		
Components	Туре	Value	
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	
Canada. New Brunswick OE Publication (New Brunswick		Based on the 1991 and 1997 ACGIH TLVs and BEIs	
Components	Type	Value	
Diethylenetriamine (CAS 111-40-0)	TWA	4.2 mg/m3	
		1 ppm	
Canada. Ontario OELs. (Cor Components	trol of Exposure to Biological or C Type	nemical Agents), as amended Value	
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	
TRIETHYLENETETRAMIN E (CAS 112-24-3)	TWA	3 mg/m3	
		0.5 ppm	

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nould be matched to conditions. If , or other engineering controls to s. If exposure limits have not been Eye wash facilities and emergency	
e shield. Face shield is	
ervious apron is recommended.	
In case of insufficient ventilation, wear suitable respiratory equipment.	
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nal hygiene measures, such as ng, and/or smoking. Routinely was ants. Contaminated work clothing	
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Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Amber
Odour	fishy
Odour threshold	Not available.
рН	≤11.6
Melting point/freezing point	Not available.

Initial boiling point and boiling	>198.89 °C (>390 °F)
range	
Flash point	>93.9 °C (>201.0 °F)
Evaporation rate	<1
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	1 % estimated
Explosive limit - lower (%)	
Explosive limit – upper (%)	9.5 % estimated
Vapour pressure	<0.1 mm Hg
Vapour density	>1
Relative density	Not available.
Solubility(ies)	
Solubility (water)	<75 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.01 g/cm3
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Specific gravity	1.01
10. Stability and reactivity	/
Reactivity	Reacts violently with strong alkaline substances. This product may react with reducing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with other chemicals.
Incompatible materials	Strong acids. Bases. Reducing Agents. Alkali metals. Peroxides. Phenols.
Hazardous decomposition products	No hazardous decomposition products are known.
11. Toxicological information	tion
Information on likely routes of e	xposure
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 effe	ects
Acute toxicity	Harmful in contact with skin. Harmful if swallowed.

Components	Species	Test Results
4,4'-Isopropylidenedipher	iol (CAS 80-05-7)	
Acute		
Dermal		
LD50	Rabbit	3000 mg/kg

Components	Species	Test Results
TRIETHYLENETETRAMINE (CAS	112-24-3)	
Acute		
Dermal		
Liquid		
LD50	Rat	1465 mg/kg
Oral		
Liquid LD50	Rat	1716 mg/kg
		T7 To Hig/kg
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory or skin sensitisatior		
Canada - Alberta OELs: Irrit		
Diethylenetriamine (CAS		
Respiratory sensitisation	Not a respiratory sensitiser.	
Skin sensitisation	May cause an allergic skin reaction.	
Germ cell mutagenicity	No data available to indicate product or any com mutagenic or genotoxic.	ponents present at greater than 0.1% are
Carcinogenicity	Not available.	
Reproductive toxicity	This product is not expected to cause reproductiv	ve 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. B expected to produce significant ecotoxicity upon	
	systems.	
Persistence and degradability	No data is available on the degradability of any in	ngredients in the mixture.
Bioaccumulative potential		
Partition coefficient n-octan 4,4'-lsopropylidenediphenol	ol / water (log Kow) 3.32	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozo	one depletion, photochemical ozone creation
	potential, endocrine disruption, global warming p	otential) are expected from this component.
13. Disposal consideratio	ns	
Disposal instructions	Collect and reclaim or dispose in sealed container this material to drain into sewers/water supplies. with chemical or used container. Dispose of cont local/regional/national/international regulations.	Do not contaminate ponds, waterways or ditches
Local disposal regulations	Dispose in accordance with all applicable regulat	tions.
Hazardous waste code	The waste code should be assigned in discussion disposal company.	n between the user, the producer and the waste
Waste from residues / unused products	Dispose of in accordance with local regulations. I product residues. This material and its container Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product res emptied. Empty containers should be taken to an disposal.	idue, follow label warnings even after container is n approved waste handling site for recycling or

14. Transport information

TDG	
UN number	UN2735
UN proper shipping name	Amines, liquid, corrosive, n.o.s. (DIETHYLENETRIAMINE, TRIETHYLENETETRAMINE)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
ΙΑΤΑ	
UN number	UN2735
UN proper shipping name	Amines, liquid, corrosive, n.o.s. (DIETHYLENETRIAMINE, TRIETHYLENETETRAMINE)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN2735
UN proper shipping name	Amines, liquid, corrosive, n.o.s. (DIETHYLENETRIAMINE, TRIETHYLENETETRAMINE)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	Not assigned.
	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	

the IBC Code



15. Regulatory information

Canadian regulations

This 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. 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.		
International Inventories		
Country(s) or region	Inventory name	On inventory (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)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
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
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*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

Issue date	04-April-2019
Revision date	17-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	Composition / Information on Ingredients: Disclosure Overrides Physical & Chemical Properties: Multiple Properties