PolvOne

MATERIAL SAFETY DATA SHEET **BLACK HC**

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone Emergency telephone	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	BLACK HC
Product code	:	CC10165551
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight percent
1,6-Hexanediamine, N,N'-bis(2,2,6,6- tetramethyl-4-piperidinyl)-,polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products	70624-18-9	1 - 5
Amines, bis(hydrogenated tallow alkyl), oxidized	143925-92-2	1 - 5
Carbon black	1333-86-4	1 - 5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation	: Resin particles, like other inert materials, can be mechanically irritating.
Ingestion	: May be harmful if swallowed.



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Eyes	: Resin particles, like other inert materials, are mechanically irritating to eyes.
Skin	: Experience shows no unusual dermatitis hazard from routine handling
Chronic exposure	: Refer to Section 11 for Toxicological Information.
Medical Conditions Aggravated by Exposure:	: None known.
	4. FIRST AID MEASURES
Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases o doubt seek medical advice.
Ingestion	: Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
Eyes	: Rinse immediately with plenty of water, also under the eyelids, for a least 15 minutes. If eye irritation persists, seek medical attention.
Skin	: Wash off with soap and plenty of water. If skin irritation persists seek medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: not applicable
Flammable Limits	
Upper explosion limit	: not applicable
Lower explosion limit	: not applicable
Autoignition temperature	: not applicable Carbon dioxida blankat. Water spray, Dry powder, Foom
Suitable extinguishing media	: Carbon dioxide blanket, Water spray, Dry powder, Foam.
Special Fire Fighting Procedures	: Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion Hazards	 Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions	: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental precautions	: Should not be released into the environment. The product should no be allowed to enter drains, water courses or the soil.
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Package all material in



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		lastic, cardboard or metal conta 3 of this MSDS for proper disp		r to Section
	7.	HANDLING AND STORAG	JE	
Handling		ake measures to prevent the bunch in areas with appropriate ex		arge. Heat
Storage		Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.		
8.	EXPOSURE	CONTROLS/PERSONAL I	PROTECTION	
Respiratory protection	: N	: No personal respiratory protective equipment normally required.		
Eye/Face Protection	: S	: Safety glasses with side-shields		
Hand protection	: P	: Protective gloves		
Skin and body protection	: L	: Long sleeved clothing		
Additional Protective Measures	: S	: Safety shoes		
General Hygiene Considerations		: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.		
Engineering measures		: Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.		
Exposure limit(s)				
Components	Value	Exposure time	Exposure type	List:
Carbon black	3.5 mg/m3	Recommended exposure		NIOSH

componentis	value	Exposure time	Exposure type	List.
Carbon black	3.5 mg/m3	Recommended exposure limit (REL):		NIOSH
	0.1 mg/m3	Recommended exposure limit (REL):		NIOSH
	3.5 mg/m3	PEL:		OSHA Z1
	3.5 mg/m3	Time Weighted Average (TWA):		OSHA Z1A
	3.5 mg/m3	Time Weighted Average (TWA):		MX OEL
	7 mg/m3	Short Term Exposure Limit (STEL):		MX OEL
	3 mg/m3	Time Weighted Average (TWA):	Inhalable fraction.	ACGIH

9. PHYSICAL AND CHEMICAL PROPERTIES

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Form Appearance Colour Odour Melting point/range Boiling Point: Water solubility	 solid pellets BLACK very faint Not determined not applicable insoluble 	Evaporation rate Specific Gravity Bulk density Vapour pressure Vapour density pH	Not establishednot applicable
	10. STABILITY ANI	D REACTIVITY	
Stability	: Stable		
Hazardous Polymerization	: Will not occur.		
Conditions to avoid	: Keep away from or decomposition, do	idizing agents and open f not overheat.	lame. To avoid thermal
Incompatible Materials	: Incompatible with	strong acids and oxidizing	g agents.
Hazardous decomposition products		D2), carbon monoxide (CO dous materials, and smoke	

11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
70624-18-9	1,6-Hexanediamine, N,N'-	Irritant	Eyes, Skin, Respiratory
	bis(2,2,6,6-tetramethyl-4-		system.
	piperidinyl)-,polymer with		
	2,4,6-trichloro-1,3,5-		
	triazine, reaction products		
143925-92-2	Amines, bis(hydrogenated	sensitizer	Skin.
	tallow alkyl), oxidized		
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
70624-18-9	1,6-Hexanediamine, N,N'-	Oral LD50	> 2,000 mg/kg	rat
	bis(2,2,6,6-tetramethyl-4-	Dermal LD50	> 3,000 mg/kg	rat
	piperidinyl)-,polymer with			
	2,4,6-trichloro-1,3,5-			
	triazine, reaction products			

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1333-86-4 C	Carbon black	Oral LD50	> 15,400 mg/kg	rat
		Dermal LD50	> 3 gm/kg	rabbit
Additional Health Haza Carbon black 1333-86 response observed in the exposure. However, the "There is sufficient evid this evaluation, along wi overall evaluation is tha listing only pertains to a not been listed as a carci and Health Administrat criteria document on car hydrocarbon) levels grea	-4 Carcinogenicity: e referenced rat studi IARC evaluation in I ence in experimental th their evaluation o t "Carbon Black is p irborne, unbound ca inogen by the Nation ion (OSHA). The Nar	es is species specific an Monograph Volume 65 animals for the carcin f inadequate evidence ossibly carcinogenic to rbon black particles of al Toxicology Program tional Institute of Occu nds that only carbon b	nd does not correla 5, issued in April 1 nogenicity of carbo of carcinogenicity 6 humans (Group 2 f respirable size. C 1 (NTP) or the Occ upational Safety an lack with PAH (po	ate to human 996 concluded on black''. Based in humans, IAI 2B). The IARC larbon Black ha cupational Safe nd Health (NIO
	12. ECOLOG	GICAL INFORMATIO	DN	
Persistence and degradabi	lity : Not readily	y biodegradable.		
Environmental Toxicity	: Chemicals polymer m	are not readily availabl atrix.	e as they are bound	within the
Bioaccumulation Potentia	l : Chemicals polymer m	are not readily availabl atrix.	e as they are bound	within the
Additional advice	: no data av	ailable		
	13. DISPOSA	AL CONSIDERATION	NS	
Product	possible re generator o classificati	thermoplastic plastics the cycling is preferred to co of waste material has the on, transportation and co federal, state/provincial	lisposal or incinerate responsibility for lisposal in accordan	ion. The proper waste ce with
Contaminated packaging	material ha transportat	is preferred when possi as the responsibility for ion and disposal in acco ncial and local regulation	proper waste classi ordance with applic	fication,
	14. TRANSI	PORT INFORMATIO	N	
U.S. DOT Classification	: Not regula	ted for transportation.		
ICAO/IATA	: Refer to sp	ecific regulation.		
IMO/IMDG (maritime)	: Refer to sp	ecific regulation.		
		-		

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US Regulations:	
OSHA Status	: Classified as hazardous based on components.
TSCA Status	: All components of this product are listed on or exempt from the TSCA Inventory.
US. EPA CERCLA Hazardo	us Substances (40 CFR 302)
not applicable	
California Proposition 65	n : Not applicable
SARA Title III Section 302 I	Extremely Hazardous Substance
Unless specific chemicals are	e identified under this section, this product is Not Applicable under this regula
SARA Title III Section 313 T	e identified under this section, this product is Not Applicable under this regula
-	recharted under and section, and product is not Applicable under and regula
Canadian Regulations:	
Canadian Regulations: National Pollutant Re	lease Inventory (NPRI)
Canadian Regulations:	lease Inventory (NPRI)
Canadian Regulations: National Pollutant Rel not applicable	lease Inventory (NPRI) n : D2A
Canadian Regulations: National Pollutant Rel not applicable WHMIS Classification	lease Inventory (NPRI) n : D2A
Canadian Regulations: National Pollutant Rel not applicable WHMIS Classificatio WHMIS Ingredient D CAS-No.	lease Inventory (NPRI) n : D2A
Canadian Regulations: National Pollutant Rel not applicable WHMIS Classificatio WHMIS Ingredient D <u>CAS-No.</u> 1333-86-4	lease Inventory (NPRI) on : D2A isclosure List
Canadian Regulations: National Pollutant Rel not applicable WHMIS Classification WHMIS Ingredient D CAS-No. 1333-86-4 DSL	lease Inventory (NPRI) on : D2A isclosure List

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Europe EINECS	: Listed
Japan ENCS	: Not determined
Korea KECI	: Not determined
Philippines PICCS	: Not determined

16. OTHER INFORMATION

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.