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SAFETY DATA SHEET

LOW HAZE BLACK

Section 1. Identification		
GHS product identifier	:	LOW HAZE BLACK
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10222831
Product type	:	solid
Relevant identified uses of the subs	tance	or mixture and uses advised against
Product use	:	Industrial applications. Plastics.
Supplier's details	:	POLYONE CORPORATION
		33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone number (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Section 2. Hazards identification

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. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
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GHS label elements



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Signal word Hazard statements	:	No signal word. No known significant effects or critical hazards.
Precautionary statements		
General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10222831

CAS number/other identifiers

Ingredient name	%	CAS number
Carbon black	5 - 10	1333-86-4
Aniline	0.1 - 1	62-53-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures



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Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Exposure to decomposition products may cause a health hazard.
Skin contact	Serious effects may be delayed following exposure.No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symptoms	
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate medical at	ttention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.
San torrigological information (Sant	ion 11)

See toxicological information (Section 11)



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Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$. None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up		
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water
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courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Carbon black	OSHA PEL 1989 (1989-03-01)
	PEL: Permissible Exposure Level 3.5 mg/m3
	OSHA PEL (1993-06-30)
	PEL: Permissible Exposure Level 3.5 mg/m3
	NIOSH REL (1994-06-01)
	Time Weighted Average (TWA) 3.5 mg/m3
	Time Weighted Average (TWA)
	ACGIH TLV (2010-12-06)
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:
	Permissible Exposure Level 3 mg/m3 Form: Inhalable fraction



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Aniline		ACGIH TLV (1996-05-18) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 7.6 mg/m3 2 ppm OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 19 mg/m3 5 ppm NIOSH REL (1994-06-01) OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 8 mg/m3 2 ppm
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures Eye/face protection	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to
		liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be
Other skin protection	:	approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

:

Appearance

Physical state	:	solid [Pellets.]
Color	:	BLACK
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
		Kinematic: Not available.

Section 10. Stability and reactivity

Reactivity Chemical stability	 No specific test data related to reactivity available for this product or its ingredients. Stable under recommended storage and handling conditions (see Section 7).
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Possibility of hazardous reactions		Under normal conditions of storage and use, hazardous reactions will
		not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids.
_		Oxidizer.
Hazardous decomposition	:	Under normal conditions of storage and use, hazardous decomposition
products		products should not be produced.

Section 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.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Carbon black				
	LD50 Oral	Rat	15,400 mg/kg	-
Aniline				<u>.</u>
	LD50 Oral	Rat	250 mg/kg	-
	LC50 Inhalation	Rat	250 ppm	1 h
	LD50 Dermal	Rat	1,400 mg/kg	-
Conclusion/Summary	: Mixtu	re.Not fully tested.		

Conclusion/Summary

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
Aniline	Eyes -	Rabbit		24 hrs	-	
	Moderate					
	irritant					
	Skin -	Rabbit		24 hrs	-	
	Moderate					
	irritant					
Conclusion/Summary						
Skin	:	Mixture.Not fu	lly tested.			
Eyes	:	Mixture.Not fu	lly tested.			
Respiratory	: Mixture.Not fully tested.					
Sensitization						
Conclusion/Summary						
Skin	:	Mixture.Not fu	lly tested.			
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Respiratory	: N	lixture.Not fully t	tested.	
Mutagenicity				
Conclusion/Summary	: N	lixture.Not fully t	tested.	
Carcinogenicity				
Conclusion/Summary <u>Classification</u>	: N	lixture.Not fully t	tested.	
Product/ingredient	OSHA	IARC	NTP	
name				
Carbon black		2B		
Aniline		3		
<u>Reproductive toxicity</u> Conclusion/Summary	: N	lixture.Not fully t	tested.	
Teratogenicity				
Conclusion/Summary	: N	lixture.Not fully t	tested.	
Specific target organ toxicity Not available.	<u>(single exposu</u>	<u>re)</u>		

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Aniline	Category 1 Category 2		

Aspiration hazard Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation	:	No known significant effects or critical hazards. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact Ingestion	:	No known significant effects or critical hazards. No known significant effects or critical hazards.



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Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
<u>Delayed and immediate effects and</u> <u>Short term exposure</u>	also o	chronic effects from short and long term exposure
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		

Potential immediate effects Not available. : **Potential delayed effects** Not available. : **Potential chronic health effects Conclusion/Summary** Mixture.Not fully tested. : General No known significant effects or critical hazards. : No known significant effects or critical hazards. Carcinogenicity : Mutagenicity :

Mutagenicity:No known significant effects or critical hazards.Teratogenicity:No known significant effects or critical hazards.Developmental effects:No known significant effects or critical hazards.Fertility effects:No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Specie	s Exposi	ure
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Carbon black			
	Acute EC50 37.563 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute LC50 61.547 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
Aniline			
	Acute LC50 5,500 µg/l Fresh water	Fish - Channel catfish	108 h
	Acute LC50 7,400 µg/l Fresh water	Fish - Channel catfish	108 h
	Acute LC50 5,600 µg/l Fresh water	Fish - Channel catfish	108 h
	Acute LC50 6,300 µg/l Fresh water	Fish - Channel catfish	108 h
	Acute LC50 7,600 µg/l Fresh water	Fish - Goldfish	96 h
	Acute LC50 0.17 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute LC50 0.08 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute LC50 0.1 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 0.16 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 0.250 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 94,000 µg/l Fresh water	Aquatic plants - Green algae	96 h
	Acute EC50 19 mg/l Fresh water	Aquatic plants - Green algae	96 h
	Acute EC50 20,000 µg/l Fresh water	Aquatic plants - Green algae	96 h
	Acute EC50 175,000 µg/l Fresh water	Aquatic plants - Green algae	72 h
	Chronic No-observable-effect- concentration 2.1 mg/l Fresh water	Fish - Fathead minnow	32 d
	Chronic No-observable-effect- concentration 4,000 µg/l Fresh water	Fish - Rainbow trout,donaldson trout	90 d
	Chronic No-observable-effect- concentration 2,000 µg/l Fresh water	Fish - Rainbow trout,donaldson trout	56 d
	Chronic No-observable-effect- concentration 0.422 mg/l Fresh water	Fish - Fathead minnow	32 d
	Chronic No-observable-effect- concentration 0.422 mg/l Fresh water	Fish - Fathead minnow	32 d
	Chronic No-observable-effect-	Aquatic invertebrates.	21 d



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	concentration 4 µg/l Fresh water	Water flea	
	Chronic No-observable-effect-	Aquatic invertebrates.	21 d
	concentration 0.01 mg/l Fresh	Water flea	
	water		
LOW HAZE BLACK			
Remarks - Acute - Aquatic	Chemicals are not readily available	e as they are bound within the	e polymer matrix.
invertebrates.:			
Conclusion/Summary	: Chemicals are not rea	dily available as they are bou	nd within the
	polymer matrix.		
Persistence and degradability	<u>v</u>		
Conclusion/Summary	: Chemicals are not reapolymer matrix.	dily available as they are bou	nd within the
Conclusion/Summary	: Chemicals are not reapolymer matrix.	dily available as they are bou	nd within the

Bioaccumulative potential

Potential			
Product/ingredient name	LogPow	BCF	Potential
Aniline	0.91	2.60	low

Mobility in soil

Soil/water partition coefficient	:	Not available.
(KOC) Other adverse effects	:	No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



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United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S. DOT Classification	: Not regulated for transportation.	
ICAO/IATA	: Not classified as dangerous good under transport regulations.	
IMO/IMDG (maritime)	: Not classified as dangerous good under transport regulations.	

Section 15. Regulatory information

U.S. Federal regulations	:	United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 4(a) - Final Test Rules: Listed C.I. Solvent Black 7
		United States - EPA Clean air act (CAA) section 112 - Accidental

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release prevention - Flammable substances: Not listed **United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances:** Not listed **United States - Department of commerce - Precursor chemical:** Not listed

Clean Air Act Section 112(b)	:	Not listed
Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I	:	Not listed
Substances Clean Air Act Section 602 Class II	:	Not listed
Substances DEA List I Chemicals (Precursor	:	Not listed
Chemicals)		Not listed
DEA List II Chemicals (Essential Chemicals)	•	Not listed

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

: Not applicable.

Composition/information on ingredients

Name	%	Classification
Carbon black	5 - 10	СН
Aniline	0.1 - 1	F, AH, CH

SARA 313

Not applicable.

State regulations		
Massachusetts	: The followi	ng components are listed:
	Carbon bla	ack
New York	: None of the	components are listed.
New Jersey	: The followi	ng components are listed:
	Carbon bla	ack
Pennsylvania	: The followi	ng components are listed:
-	Carbon bla	ack

California Prop. 65



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WARNING: This product contains a chemical known to the State of California to cause cancer.

United States inventory (TSCA 8b)	:	All components are listed or exempted.
Canada inventory	:	All components are listed or exempted.
International regulations		
International lists	:	 Australia inventory (AICS): Not determined. Taiwan inventory (CSNN): Not determined. Malaysia Inventory (EHS Register): Not determined. EINECS: All components are listed or exempted. Japan inventory: Not determined. China inventory (IECSC): Not determined. Korea inventory: Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined.
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Not listed

Section 16. Other information

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<u>History</u>		
Date of printing	:	11/22/2015
Date of issue/Date of revision	:	08/21/2015
Date of previous issue	:	08/13/2015
Version	:	1.1
Key to abbreviations	:	ATE = Acute Toxicity Estimate
		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		LogPow = logarithm of the octanol/water partition coefficient
		MARPOL 73/78 = International Convention for the Prevention of Pollution
		From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
		UN = United Nations
References	:	Not available.

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Notice to reader

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