MATERIAL SAFETY DATA SHEET **BLACK 154A CONC (25-1)**

Version Number 1.3 Revision Date 04/09/2007

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone:Emergency telephone:number	:	Product Stewardship (440) 930-1395 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	BLACK 154A CONC (25-1)
Product code	:	EM10001545
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Spinels, chromium (III) copper black	68186-91-4	10 - 30

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

: Inhalation, Ingestion, Skin contact
: Particulates, like other inert materials can be mechanically irritating. If overheated or burnt, the polymer releases formaldehyde.
: May be harmful if swallowed.
: Particulates, like other inert materials can be mechanically irritating.
: Experience shows no unusual dermatitis hazard from routine handling.
: Refer to Section 11 for Toxicological Information.
: None known.

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	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 of 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 at least 15 minutes. If eye irritation persists, seek medical attention.
Skin	: Wash off with soap and plenty of water. If skin irritation persists seel medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 Not applicable Not applicable Not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. If overheated or burnt, the polymer releases formaldehyde. May burn
	with invisible flame. 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 not 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 plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Open container only in a well-ventilated area. Heat only in areas with

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orage : Keep containers dry and tightly closed to avoid moisture absor					
		nd contamination. Keep in a d			
8. 1	EXPOSURE	CONTROLS / PERSONAL	PROTECTION		
Respiratory protection	: No personal respiratory protective equipment normally required. When temperatures exceed 230°C (446°F) and ventilation is inadequate to maintain concentrations below exposure limits, use a positive air supplied respirator. Air purifying respirators may not provide adequate protection.				
Eye/Face Protection		afety glasses with side-shields or abnormal processing problem		l protective suit	
Hand protection	: P	rotective gloves			
Skin and body protection	: L	ong 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		eat only in areas with appropr ppropriate exhaust ventilation		n. Provide	
Exposure limit(s)					
• · · ·	Value	Exposure time	Exposure type	List	
Exposure limit(s) Components Spinels, chromium (III) copper black	Value 0.5 mg/m3	Exposure time Time Weighted Average (TWA):	Exposure type as Cr	List: ACGIH	
Components Spinels, chromium		Time Weighted Average			
Components Spinels, chromium	0.5 mg/m3 0.5 mg/m3	Time Weighted Average (TWA):	as Cr as Cr	ACGIH	
Spinels, chromium	0.5 mg/m3 0.5 mg/m3 9. PHYSIC : Solid : pelle : BLA : form : Not o	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO I Evapo ts, Slabs Specif CK Bulk d aldehyde Vapou letermined Vapou applicable pH	as Cr as Cr DPERTIES ration rate : N ic Gravity : N lensity : N Ir pressure : N Ir density : N	ACGIH	
Components Spinels, chromium (III) copper black Form Appearance Color Odour Melting point/range Boiling Point:	0.5 mg/m3 0.5 mg/m3 9. PHYSIC : Solid : pelle : BLA : form : Not a : Insol	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO I Evapo ts, Slabs Specif CK Bulk d aldehyde Vapou letermined Vapou applicable pH	as Cr as Cr as Cr DPERTIES ration rate : N ic Gravity : N lensity : N Ir pressure : N Ir density : N : N	ACGIH OSHA Z1	

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Hazardous Polymerization	:	Will not occur.
Conditions to avoid	:	Maintain polymer temperature below 230°C (446°F). Avoid prolonged exposure at or above recommended processing temperature.
Incompatible Materials	:	Incompatible with strong oxidizers and with strong acids and bases (decomposes to form formaldehyde). At melt temperatures, acetal resins are incompatible with halogenated polymers such as vinyl (PVC) and any elastomers containing any halogenated polymers. At processing conditions, these materials are mutually destructive and involve rapid degradation. Even small amounts of such contaminants can cause sudden and spontaneous formaldehyde gas formation. Workplace fume well above threshold levels are a likely result. Unsafe pressurization of equipment such as extruder or mold can also result. Thoroughly purge and mechanically clean processing equipment to avoid even trace quantities of halogenated materials from coming in contact with the acetal. Prevent contamination of virgin or rework resin.
Hazardous decomposition products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. If overheated or burnt, the polymer releases formaldehyde. Decomposition of this material depends on the lenght of time it is exposed to elevated temperatures. At the recommended processing temperature of 210°C-220°C (410°F-428°F), decomposition should not be significant until after 30 minutes. Decomposition may be accelerated by contaminants, pigments and/or other additives.

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
68186-91-4	Spinels, chromium (III)	Irritant	Eyes, Skin, Respiratory system.
	copper black		

Additional Health Hazard Information:

Spinels, chromium (III) copper black 68186-91-4 The bi- and trivalent forms of chrome have a low order of acute toxicity, but may cause skin sensitization and irritation to the eyes. No effects have been reported for chromium (III) oxide. Chromium (III) compounds are not considered carcinogenic in animals or humans.

12. ECOLOGICAL INFORMATION

Persistence and degradability

: Not readily biodegradable.

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Environmental Toxicity	: Chemicals are not readily available as they are bound within the polymer matrix.
Bioaccumulation Potential	: Chemicals are not readily available as they are bound within the polymer matrix.
Additional advice	: Not applicable
	13. DISPOSAL CONSIDERATIONS
Product	: Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
Contaminated packaging	: Recycling is preferred when possible. The generator of waste materia has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
	14. TRANSPORT INFORMATION
U.S. DOT Classification	: Not regulated for transportation.
ICAO/IATA (air)	: Refer to specific regulation.
IMO / IMDG (maritime)	: Refer to specific regulation.
	15. REGULATORY INFORMATION
US Regulations:	
OSHA Status	: Classified as hazardous based on components.
TSCA Status	: All components of this product are listed on or exempt from the TSC. Inventory.
US. EPA CERCLA Hazardous	s Substances (40 CFR 302)
Not applicable	
California Proposition 65	: Not applicable

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SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Chemical Name	CAS-No.	Weight %
CHROMIUM III COMPOUNDSCOPPER COMPOUNDS	68186-91-4	10.00 - 30.00
(WITH EXCEPTIONS)		

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
Spinels, chromium (III) copper black	68186-91-4	10.00 - 30.00	69
		10.00 - 30.00	71

WHMIS Classification : D2B

WHMIS Ingredient Disclosure List

CAS-No.	
68186-91-4	

:

DSL

All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS	: L	isted
China IECS	: L	isted
Europe EINECS	: L	isted
Japan ENCS	: No	ot determined
Korea KECI	: L	isted

Philippines PICCS : Listed

16. OTHER INFORMATION

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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.